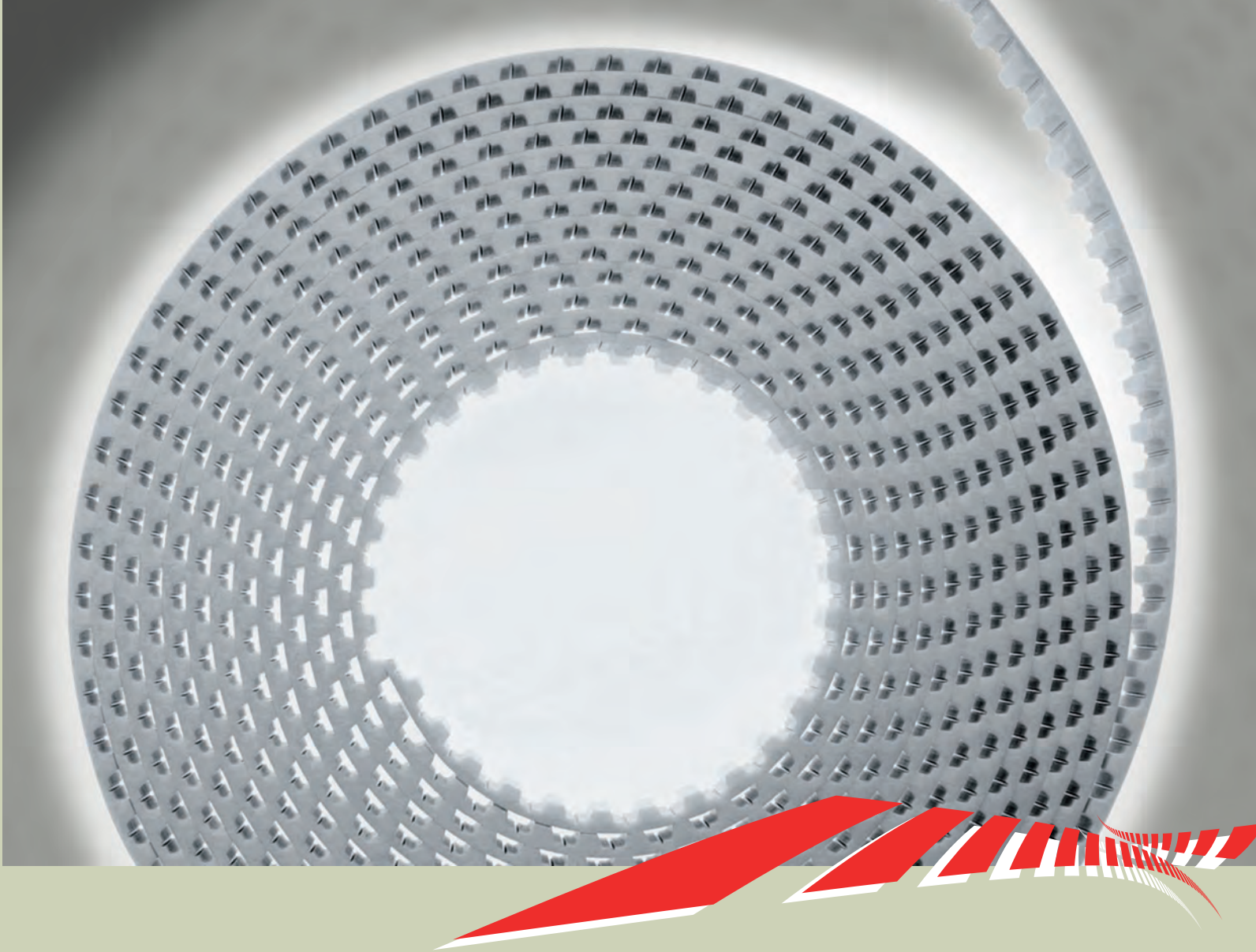


MEGALINEAR

MEGADYNE

INDEX

INTRODUCTION TO OPEN-END BELTS

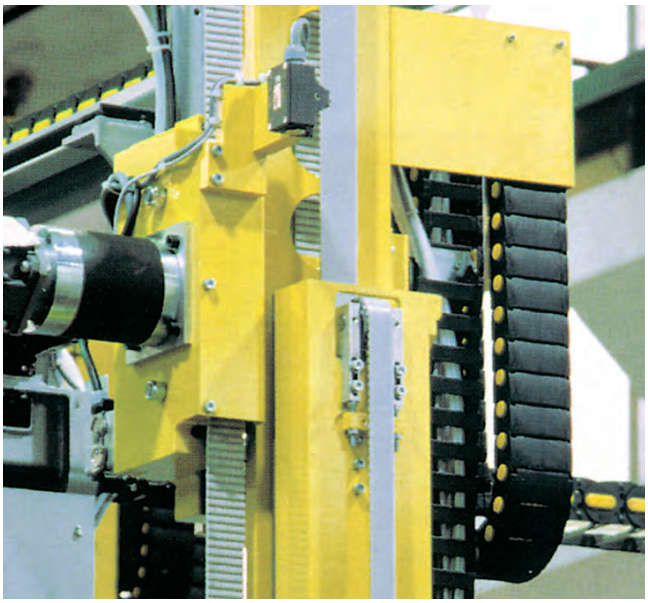
Megadyne started manufacturing moulded transmission belts in 1957 and extruding open ended belts in 1975. Megalinear open length belts are manufactured in thermoplastic polyurethane, that gives superior wear and abrasion resistance. Various types of steel cord, offer good running characteristics, even under high tractive loads. Advanced production processes, allow the ability to engineer bespoke technical design solutions to meet market demands. By selecting from a range of components and materials, Megalinear belts can be manufactured to perform in even the most demanding applications. **MEGALINEAR** open-end belts are particularly suited where the most precise accuracy of position, low noise and long maintenance free cycles are the key requirements. Megadyne has expanded the Megalinear range to include:

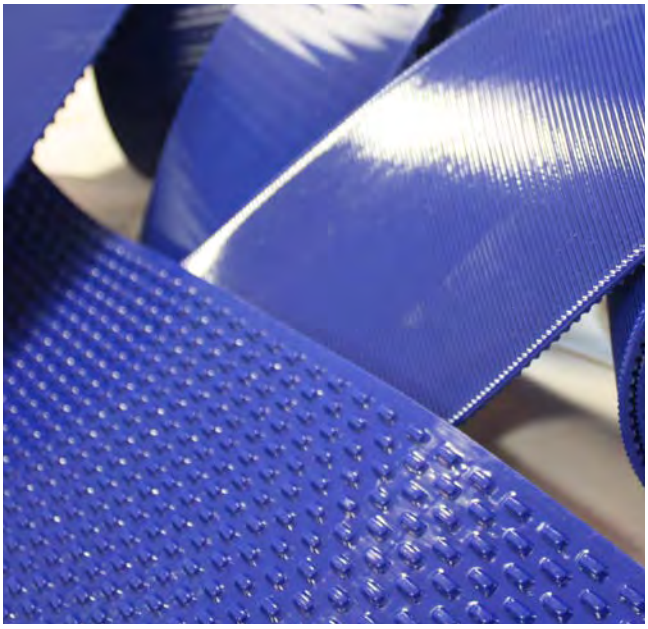
- **MEGALINEAR QST**
- **MEGALINEAR GW**
- **MEGALINEAR FC**

Uniquely designed to reduce the noise levels, generated during high speed operations, **MEGALINEAR QST** is completely self-tracking without the need for flanged pulleys. The nylon faced helical offset teeth design, provides a high torque capacity.

For heavier applications, Megadyne have introduced the **MEGALINEAR GW**, a high performance thermoplastic polyurethane belt. Superior load capacities can be achieved due to the high shear strength of the tooth design, coupled with high tension, steel zinc coated cords, **MEGALINEAR GW** guarantees a greater transmittable power under continuous high loads.

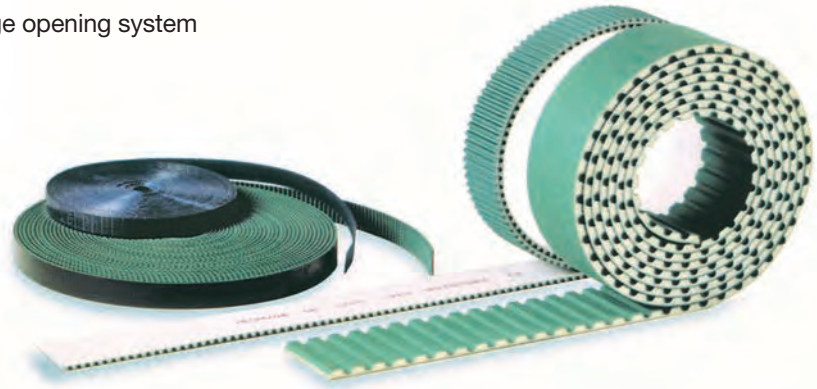
MEGALINEAR FC is a new range of belts of the **MEGALINEAR** family. Specifically introduced for the food processing industry, **MEGALINEAR FC** is manufactured with food contact approved materials, according to European regulations EU 1935/2004, EU 10/2011 and EU 174/2015. Manufactured in T5/T10 pitch without nose gap between the teeth and available with a variety of backing profiles, for all kinds of conveying and processing applications. These advanced FDA synchronous belts, have excellent resistance to chemicals and corrosion, certified for wet and dry food contact. Their use is particularly prevalent in a variety of applications in food processing and packaging. The homogenous belt design ensures a significantly greater service life, with a high level of hygienic integrity.

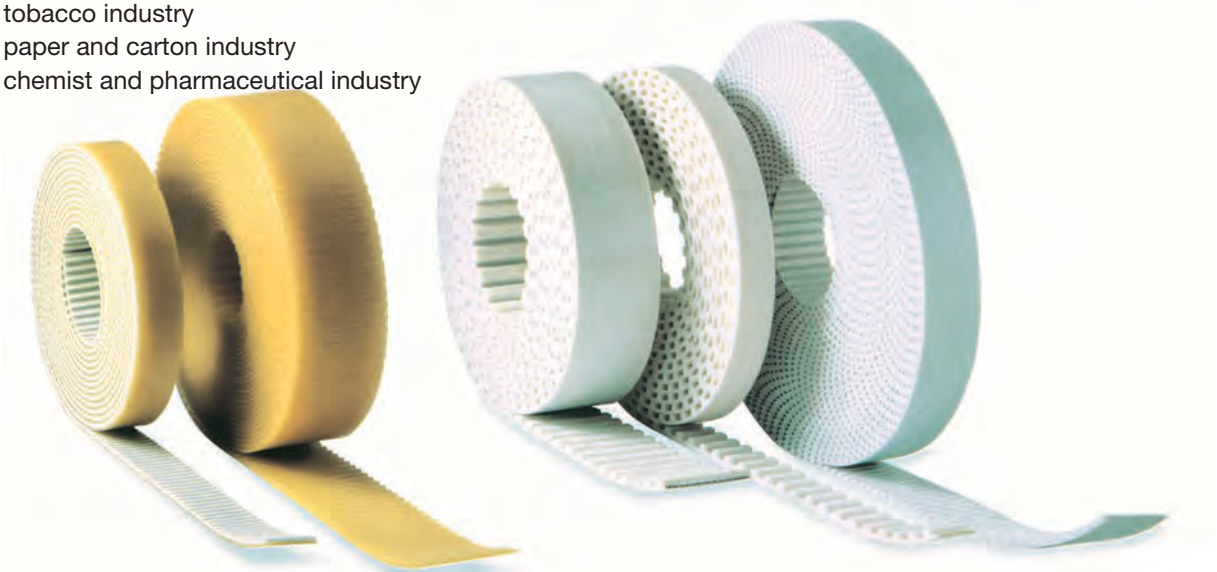




Thanks to their features, Megalinear belts can be successfully used in a wide range of application such as:

- conveyors
- automatic sliding doors and garage opening system
- elevators
- automated handling devices
- linear drivers
- positioning system
- wood industry
- textile machine
- serigraphic industry
- glass industry
- stone and marble industry
- packaging industry
- robot systems
- tobacco industry
- paper and carton industry
- chemist and pharmaceutical industry





Megadyne has developed a very wide range of solutions with numerous tooth designs, tensile members and compound, suitable for all applications.

STANDARD RANGE

MXL • XL • L • H • XH

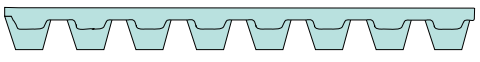
T2,5 • T5* • TT5 • T10* • T20

AT3 • AT5 • AT10 • AT20

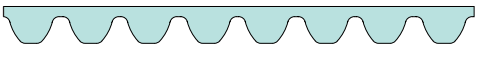
MTD3 • MTD5 • MTD8 • MTD14

RPP5 • RPP8 • RPP14 • RPP14XHP

STD5 • STD8



HG • TG5 • TG10K6 • TG10K13 • TG20 • ATG5 • ATG10 • ATG20



QST5 • QST8 • QST14

GW14 • GW20

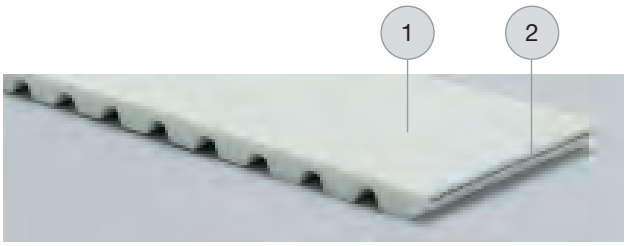
P1 • P2 • P3 • P4

* Available in Food Contact version.

CLASSIFICATIONS

Megalinear Timing Belts are manufactured in thermoplastic polyurethane, with single parallel steel cords. This type of belts, developed by our Research & Development, offers good running characteristics and high traction loads. They are especially suited for power transmission and conveying with high loads and speeds. The addition of a nylon coating on the teeth during production enhances the running properties for specific applications and reduces the noise due to a lower frictional coefficient. An extra thickness of special coating is also possible on the back of the belt offering extra protection against aggressive or heavy products.

1. The body of the belts is white thermoplastic polyurethane 92 ShA, characterized by high levels of wear resistance even in the presence of shock and surge loading.
2. High strength S and Z parallel zinked steel tension members allow high breaking load and extremely low elongation. The combination of these high grade materials improves belt performances which can be summarised as follows:
   - exceptional resistance to abrasion and tooth shear
   - low coefficient of friction
   - high flexibility
   - ozone and temperature resistance (-25 °C / +80 °C)
   - oil, grease and gasoline resistance



MECHANICAL AND CHEMICAL CHARACTERISTICS

- Constant dimensions
- Noiseless
- Free maintenance
- High flexibility
- High resistance steel traction cords, with little stretching and top flexibility
- Linear speeds up to 20 m/s
- Low pretension
- Constant length
- High abrasion resistance
- Ageing, Hydrolysis, Ozone resistant
- Working temperature -25 °C / +80 °C
- High resistance to Oils, Greases and Gasoline
- Fairly Acid-proof and Alkali-proof

BODY

Megalinear belts are manufactured with white thermoplastic Polyurethane 92 ShA as standard.
Special compounds (different hardnesses, special properties) are available on request. Special compound and cords have to be tested and homologated on the application. Megadyne is not responsible for wrong functioning of special products. Here under some PU characteristics:

Water	No problem in normal or sea clean water, at room temperature. Over 60 ºC there is a fast decrement of breaking strength.
Acids	In acid diluted proportions, at room temperature, this PU is moderately attacked. In high concentration acid solutions, this PU has a very short lifespan. Over 50 ºC, acids are always dangerous for Thermoplastic PU.
Alkalis	In alkalis diluted proportions, at room temperature, this PU is moderately attacked. In high concentration alkaline solutions, this PU has a very short lifespan. Over 50 ºC, alkalis are always dangerous for Thermoplastic PU.
Solvents	Thermoplastic PU is insoluble in the greater part of solvents. Only the very polar solvents (same as tetrahydrofuran, dimethylformamide, n-methylpyrrolidone) can dissolve or tight damage PU. The Esters or the Ketons (same as ethyl acetate or methylethylketene) can usually produce a bulge, decreasing mechanical characteristics. The Hydrocarbons aromatic and the Hydrocarbons aliphatic produce very high bulge. All the effects increase by increasing temperature.
Oils	PU has a high resistance to mineral pure oils (lubrificants, engine oils, combustible oils). Usually, high performance syntetic oils, due to special additives contained, can be incompatible with Thermoplastic PU, especially at high temperature.

Greases PU has a high resistance to mineral pure greases (lubrificants greases).
Usually, high performance syntetic greases, due to special additives contained, can be incompatible with Thermoplastic PU, especially at high temperature.

Fuels Good resistance to petrols without Alcohols.
In presence of Alcohols, Thermoplastic PU can suffer deterioration.
Fuels including Aromatiche stuffs can produce reversible bulges.

Microorganisms In presence of grime, containing humidity, Microorganisms can develop.
In case that Microbic attack can produce danger, you have to use a special kind of PU.

Weather agents Good resistance to atmospheric agents. White colour can change to light yellow under long UV exposure. In any case this hasn't influence on mechanical resistance.

CORDS

Standard cord Megalinear is manufactured with S and Z parallel zinked steel cords as standard.

Kevlar Kevlar tension cords are suggested for:
- Non magnetic, for use in drives with metal detectors
- Widely used in the food industry
- Applications in damp evoironement must be avoided

Kevlar cord belts have a lower dimentional stabiliy compared to stell cord belts. Length and tollerance may change.

HP High Performance cords have 25% more strength capacity than standard cords. They are recommended for high repeatability applications.

HF High Flexibility cords can accept smaller pulley and idler diameters than standard cords. They are suitable for multi-shaft drives with severe reverse bending.

HPF High Performance and Flexibility cords have 25% more strength capacity like the HP cords, but they are more flexible than the HP cords. They are suggested for high performance and multi-shaft drives.

Stainless steel Stainless steel cords have 25% less strength capacity than standard cords.
They are recommended for water applications.

COATING

Megalinear can be manufactured with special coating on the teeth or on the back. Please check on page 118 and 119.

IDENTIFICATION CODE

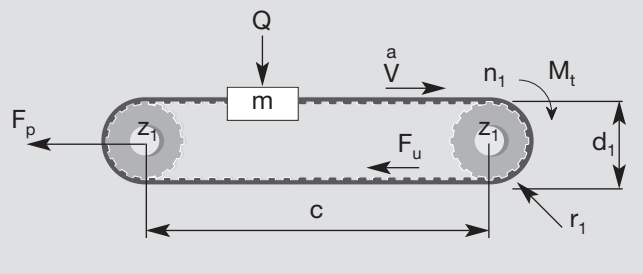
Using the information in the table below, it is possible to identify the correct belt for every application.
The code is composed of letters and numbers as the following example::

1		2		3		4		5		6
J	**+**	**50**	**+**	**AT**	**+**	**10**	**+**	**10000**	**+**	**SPECIAL MANUFACTURES**

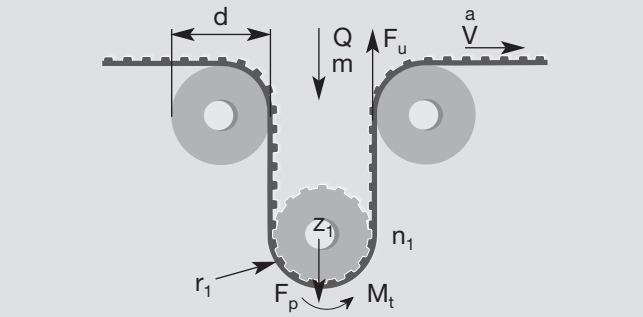
1) **J** joined belt.
ML Megalinear belt open-end.
2) **50** this number indicates the width of requested belt. The value is in mm for a belt with a pitch in mm, and in inches for a belt with a pitch in inches.
3) **AT** this code composed by letters indicates the selection of profile.
4) **10** this number indicates the standard pitch of the belt. It is expressed in mm.
5) **10000** the last number indicates the length of the belt always in mm regardless of pitch.
6) **SPECIAL MANUFACTURES:**
- special cords as Kevlar or HP or HF or HPF or stainless steel
- special compound as different hardness 85 ShA or different colours (black - red - yellow - blue)
- extra coating NFT or NFB or AVAFC or Tenax or Linatex or Honey comb or PU black cellulose or PU yellow or Neoprene rubber.

TECHNICAL CALCULATION

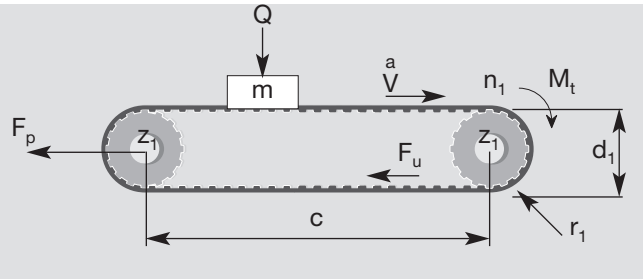
LINEAR MOTION BELT



OMEGA LINEAR MOTION BELT



CONVEYOR BELT



The following pages contain data, formulae and tables that are required to design a new belt drive.
For critical and difficult drives, it is raccomended that you contact our Application Department for advice.

Symbol	Unit	Definition	Symbol	Unit	Definition
a	m/s²	acceleration	**g**	m/s²	gravity (9,81)
b	mm	belt width	**μ**	–	friction coefficient
C	–	safety factor	**m**	Kg	conveyed mass
$\Delta l/_{oo}$	‰	elongation	**M_t**	Nm	drive torque
d	mm	idler pitch diameters	**n_1**	1/min	revs/min (RPM) of drive sprocket 1
d_1	mm	sprocket pitch diameter	**P**	KW	drive power
F_p	N	pretension	**Q**	N	force exerted by mass (m)
F_u	N	peripheral force	**V**	m/s	belt speed
$F_{p\ spec}$	N/cm	transmittable force per tooth per unit width	**Z_i**		number of teeth of sprocket
MTL	N	max traction load	**Z_m**		number of teeth in mesh on driver sprocket (12)
BS	N	breaking strength	**Z_L**		number of teeth of large pulley
c	mm	centre distance	**Z_s**		number of teeth of small pulley
			p		belt pitch

Max traction load is maximum acceptable traction on cords.
Breaking strength is necessary load to break belt cords.
Elongation is belt elongation under load.

USEFUL FORMULAE AND CONVERSION FACTORS

$$V = \frac{d_1 \cdot n_1}{19100} \qquad n_1 = \frac{V \cdot 19100}{d_1} \qquad d_1 = \frac{V \cdot 19100}{n_1} \qquad Q = m \cdot g$$

$$P = \frac{M_t \cdot n_1}{9550} \qquad M_t = \frac{9550 \cdot P}{n_1} \qquad M_t = \frac{F_u \cdot d_1}{2000}$$

CHOICE OF BELT PITCH AND SPROCKETS

For optimum belt pitch see tables on page 10.
For optimum choice of sprocket size, it is desiderable to have as near to 12 teeth in mesh as possible.

Knowing mass →	For horizontal & conveying drives	$F_u = (m \bullet a) + (m \bullet g \bullet \mu)$
	(Note: values of μ can be found in table 1 on page 11).	
→	For vertical drives	$F_u = (m \bullet a) + (m \bullet g)$
Knowing drive torque		$F_u = 2000\ M_t / d_1$
Knowing drive power		$F_u = 19.1 \bullet 10^6 \bullet P / (d_1 \bullet n_1)$

BELT WIDTH AND PROFILE ESTIMATION

The belt width b should be calculated using the following formula

$b = (F_u \bullet c_s \bullet 10) / (F_{p\ spec} \bullet Z_m)$

C_s = safety factor from page 11 table 4
F_u = from above calculation
Z_m = number of teeth in mesh on driver sprocket

$$Z_m = [0{,}5 - \frac{4 \bullet p}{79 \bullet c} (Z_L - Z_s)] \bullet Z_s$$

= (if calculated $Z_m >= 12$ for an open-end application use $Z_m = 12$)
= (if calculated $Z_m >= 6$ for a joined application use $Z_m = 6$)
$F_{p\ spec}$ = transmittable force per tooth per unit width (see table on belt data pages)

PRE-TENSIONING

The suggested installation tension:

$F_p = 2 \bullet F_u$ for linear and omega linear movement applications
$F_p = F_u$ for conveyor applications

CORD CHECK

The maximum allowable tensile load of the belt pitch/width combination selected (see tables on belt data pages):

$$\text{max traction load of choosen belt} > \frac{F_p}{2} + (F_u \bullet C_s)$$

SPROCKET AND IDLER DIAMETER CHECK

Ensure that all selected pulley and idler diameters are equal to or greater than the minimum values specified in corresponding belt data page.

ELONGATION

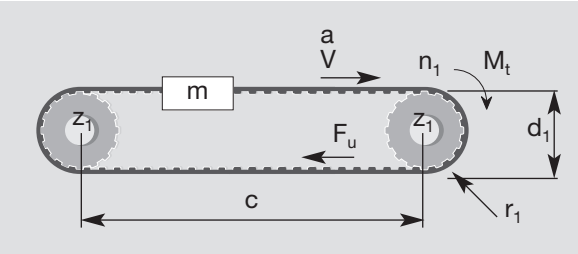
When the belt is operating there will be an elongation proportional to max traction load:

$$\Delta l/_{00} = (F_u \bullet 4) / \text{max traction load}$$

LINEAR MOTION CALCULATION EXAMPLE (OPEN-END BELT)

MACHINE DATA

C = 2.000 mm
d_1 = 76 mm
n_1 = 300 RPM
P = 1,8 KW
low fluctuating load



CHOICE OF BELT PITCH AND SPROCKETS

According to the belt pitch selection table n.1 on page 10 considering the values of P and n_1, we select RPP8 belt. Then we consider the pulley diameter nearest to the requested value and the corresponding n. of teeth (see technical information on page 63).
Therefore Z_1 = 30 teeth (with a pitch diameter of 76,4 mm).

CALCULATION OF THE EFFECTIVE TENSION

Since the drive power is known, F_u can be calculated

$$F_u = \frac{19{,}1 \cdot 10^6 \cdot P}{d_1 \cdot n_1} = \frac{19{,}1 \cdot 10^6 \cdot 1{,}8}{76{,}4 \cdot 300} = 1500 \text{ N}$$

DETERMINATION OF THE BELT WIDTH

$$b = \frac{F_u \cdot C_s \cdot 10}{F_{p\,spec} \cdot Z_m}$$

$$b = \frac{1500 \cdot 1{,}4 \cdot 10}{62 \cdot 12} = 28{,}2 \text{ mm}$$

F_u = from before (1500 N)
C_s = from page 11 table 4, for low fluctuating load C_s = 1,4
Z_m = given that driver pulley has 30 teeth and n. of teeth in mesh = 15 but max Z_m is 12, then Z_m = 12
n_1 = 300 RPM (given)
$F_{p\,spec}$ = 62N / cm (refer page 62 at 300 RPM)

Since the next closest width is 30 mm: 30 RPP8 is choosen.

PRE-TENSIONING

$F_p = 2 \cdot F_u$ F_p = 3000 N

CORD CHECK

From page 62, RPP8 pitch 30 mm wide: max traction load 4750 N

max traction load > $\frac{F_p}{2} + (F_u \cdot C_s)$ $\frac{F_p}{2} + (F_u \cdot C_s) = 1500 + 1500 \cdot 1{,}4$

4750 N > 3600 N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Ensure that all selected pulley and idler diameters are greater than or equal the minimum values specified on page 63.

ELONGATION

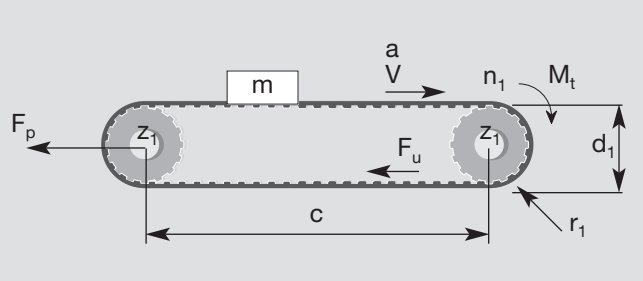
$$\Delta l/_{00} = \frac{F_u \cdot 4}{\text{max traction load}} = \frac{1500 \cdot 4}{4750} = 1{,}26 \text{ mm/m}$$

In the dynamic situations you will have an elongation of 1,26 mm per meter of operating belt.

CONVEYOR BELT CALCULATION EXAMPLE (JOINED BELT)

MACHINE DATA

C = 5.000 mm
d_1 = 100 mm
V = 0,5 m/s
a = 0,5 m/s^2
Guide in nylon
Q = 4500 N
low fluctuating load



CALCULATION OF THE EFFECTIVE TENSION

Since the mass is known, F_u can be calculated $F_u = (m \cdot a) + (m \cdot g \cdot \mu)$ value of μ according to table 3 on page 11 = 0,35

$F_u = (460 \cdot 0,5) + (460 \cdot 9,81 \cdot 0,35) = 1810$ N

m = Q/g = 4500 / 9,81 = 460 kg

CHOICE OF BELT PITCH AND SPROCKETS

According to the belt selection table n. 2 on page 10, considering the values of F_u (for joined belts enter double of calculated F_u in table 2), we select T 10. Then we consider the pulley diameter nearest to the requested value and the corresponding n. of teeth (see technical information page 35). Therefore Z_1 = 32 teeth (with a pitch diameter of 101,86 mm).

DETERMINATION OF THE BELT WIDTH

$$b = \frac{F_u \cdot C_s \cdot 10}{F_{p\,spec} \cdot Z_m}$$

$$b = \frac{1810 \cdot 1,4 \cdot 10}{45 \cdot 6} = 93,85 \text{ mm}$$

F_u = from before (1810 N)
C_s = from page 11 table 4, for low fluctuating load C_s = 1,4
Z_m = given that driver pulley has 32 teeth and n. of teeth in mesh = 16 but max Z_m for joined belt is 6, hence, Z_m = 6
n_1 = (Vp • 60.000) / (π • d_1) = (0,5 • 60.000) / (π • 101,86) as d_1 = 101,86 from before = 94 RPM
$F_{p\,spec}$ = 45 N / cm (refer page 34, at 100 RPM)

Since the next closest width is 100 mm: 100 T10 is choosen.

PRE-TENSIONING

$F_p = F_u$ so F_p = 1810 N

CORD CHECK

From page 34, T10 pitch 100 mm wide joined: max traction load 5415 N

max traction load > $F_p + (F_u \cdot C_s)$ $Fp + (F_u \cdot C_s) = 1810 + (1810 \cdot 1,4)$

5415 N > 4344 N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Checking technical data on page 35 for pulley and idlers, it can be seen that the drive has acceptable pulley diameters.

ELONGATION

$$\Delta l/_{00} = \frac{F_u \cdot 4}{\text{max traction load}} = \frac{1810 \cdot 4}{5415} = 1,33 \text{ mm/m}$$

In the dynamic situations you will have an elongation of 1,33 mm per meter of operating belt.

CALCULATION PARAMETERS

BELT PITCH SELECTION

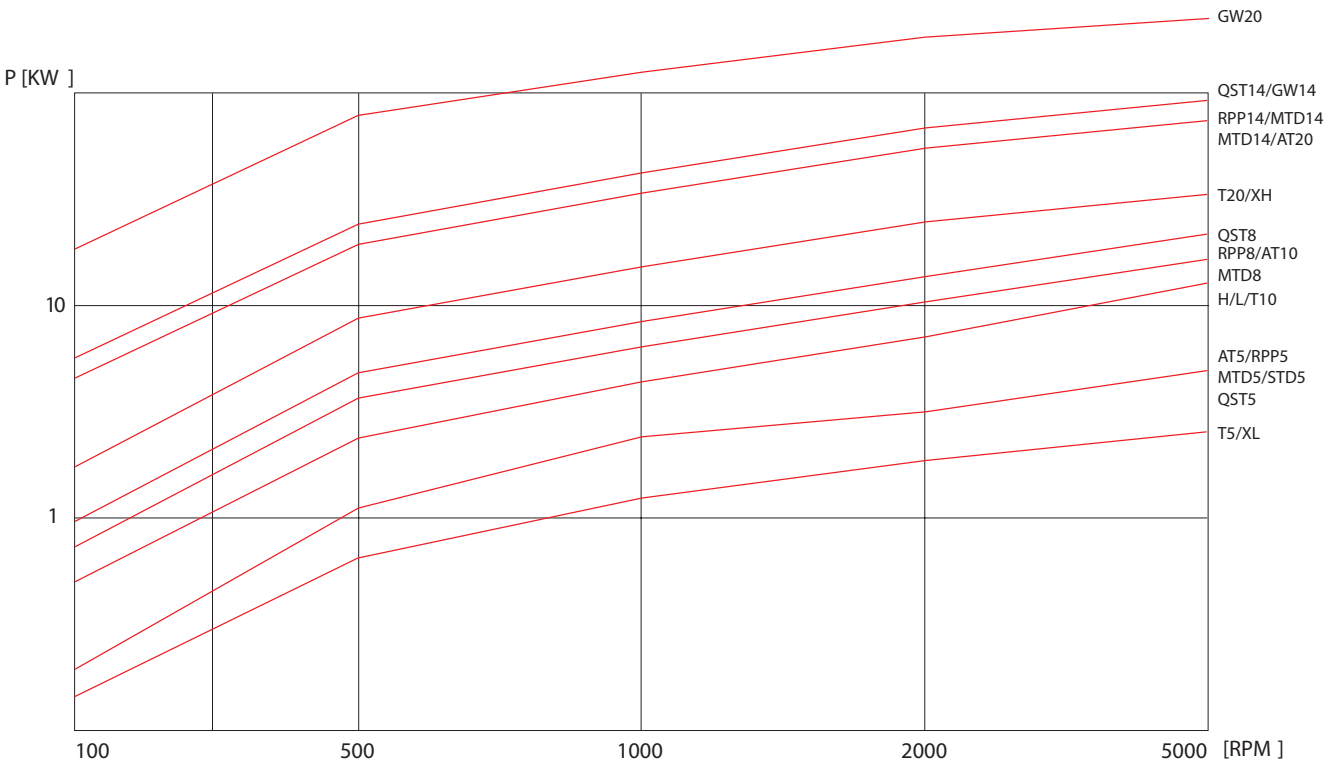


Table n. 1

BELT WIDTH SELECTION

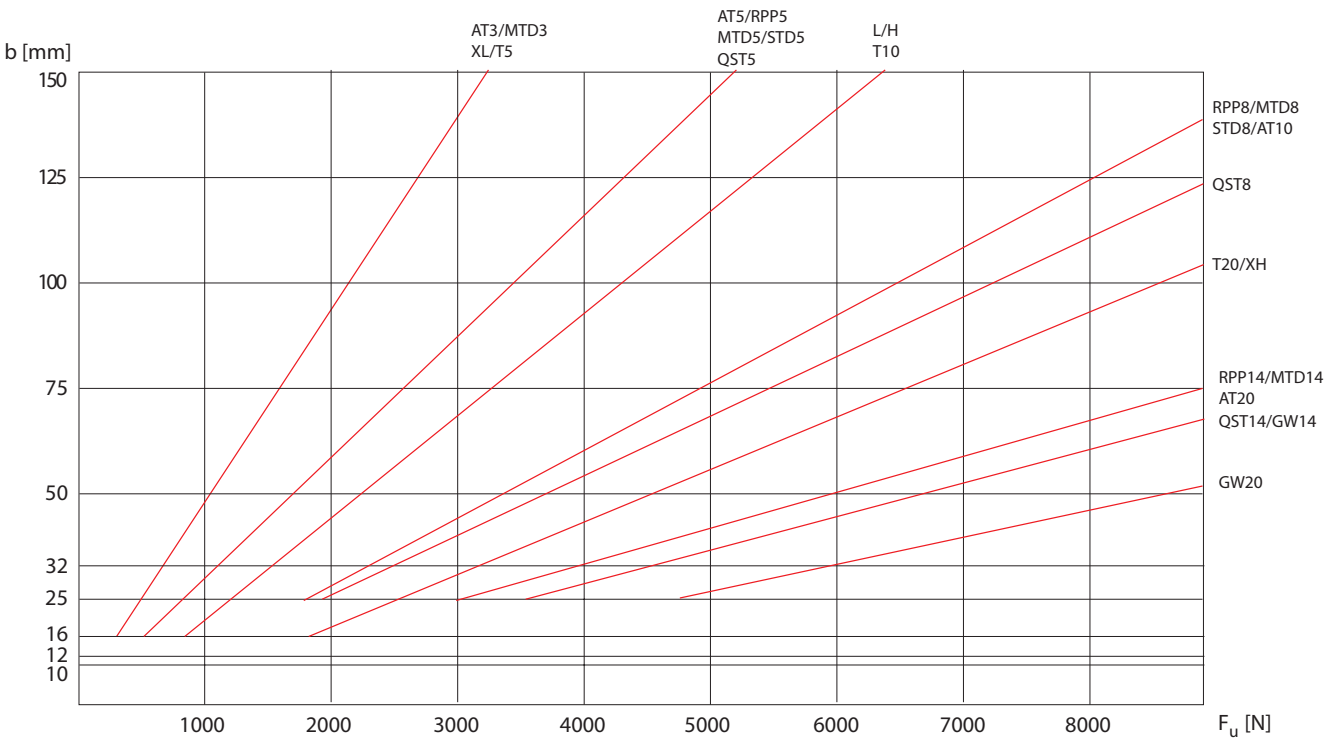


Table n. 2

Average values valid for standard steel cord. After belt selection, please check belt resistance on belt data page.

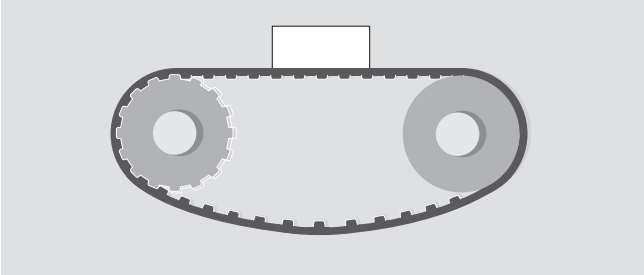
Table n. 3 - Friction coefficient	
Sliding friction on dry surface	
Polyurethane / smooth steel	μ = 0,5
Polyurethane / rough steel	μ = 0,7
Polyurethane / abrasive steel	μ = 0,9
Polyurethane NFT / smooth steel	μ = 0,25
Polyurethane NFT / rough steel	μ = 0,35
Polyurethane NFT / abrasive steel	μ = 0,6
Polyurethane / nylon	μ = 0,35
Polyurethane NFT / nylon	μ = 0,15
Polyurethane / aluminium	μ = 0,8
Polyurethane NFT / aluminium	μ = 0,45
Rolling friction on dry surface	
Bearing	μ = 0,015
Roller / PU Belt	μ = 0,03 / 0,06
Bush	μ = 0,15

Table n. 4 - Safety factor		
The choice of the Safety factor's, depends on the operating conditions. The following table shows the value to be used:		
Steady Load		1
Shock Load	Low	1,4
	Average	1,7
	High	2
Elevators, hoists		1,8
Line shafts		1,6
Paper machines:		
agitators, calenders, driers, winding frames,		1,6
willows, Jordan machines, pumps, slicers, grinders		1,8
Machines for pottery and earthenware:		
cutters, granulators,		1,7
pulping machines		2,0
Laundry machines: general		1,6
extractors, washers		1,8
Machines for rubber processing		1,8
Woodworking machines:		
lathes, band saws, cutters,		1,7
circular saws, planers, jointer		1,7
Printing machinery:		
rotary, newspaper, linotype, cutters, folders, magazine		1,6
Textile machines:		
warping machines, winders,		1,7
spinners, twisting frames, looms		1,8
Machines tools: drilling machines, lathes,		
tread cutting machines, gears cutters, boring machines		1,6
millers, planers,		1,7
grinding machines		1,7
Conveyors:		
hoists, light package		1,3
oven screw fleight		1,8
apron bucket, elevator		1,8
screw		1,8
Brick machinery		1,8

BELT INSTALLATION

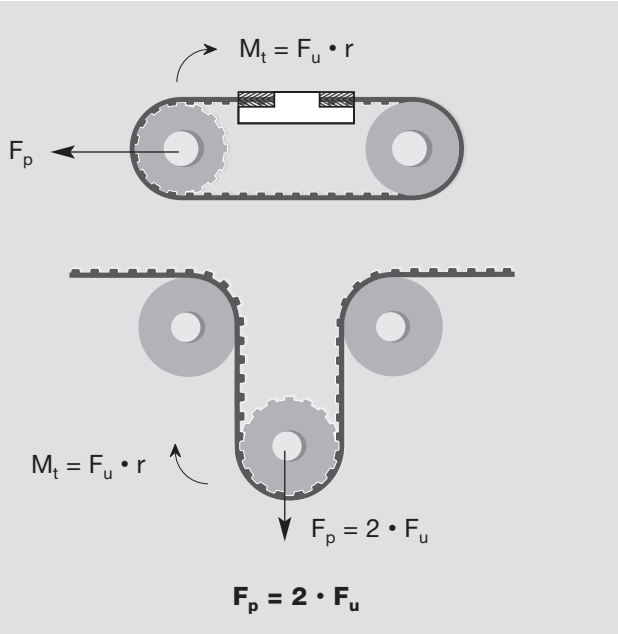
A major difficulty installing transmission belt is to achieve correct belt tension. Lifetime of support bearings and transmission belts and therefore reliability of the complete system largely depends on an optimally adjusted belt tension. Pretension is the force needed to put tension into the system to avoid the belt jumping on the pulleys as in the example below:

Not correct belt installation

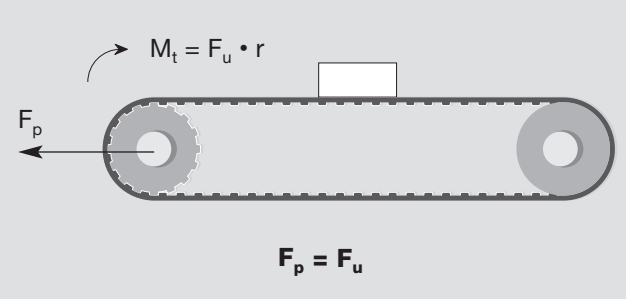


For a correct system installation, all applications with Megalinear belt can be summarised according following two sketches:

1) Linear and omega linear motion belt



2) Conveyor belt



F_p = pretension
F_u = peripheral force (see calculation pag. 8/9)
r = pulley radius

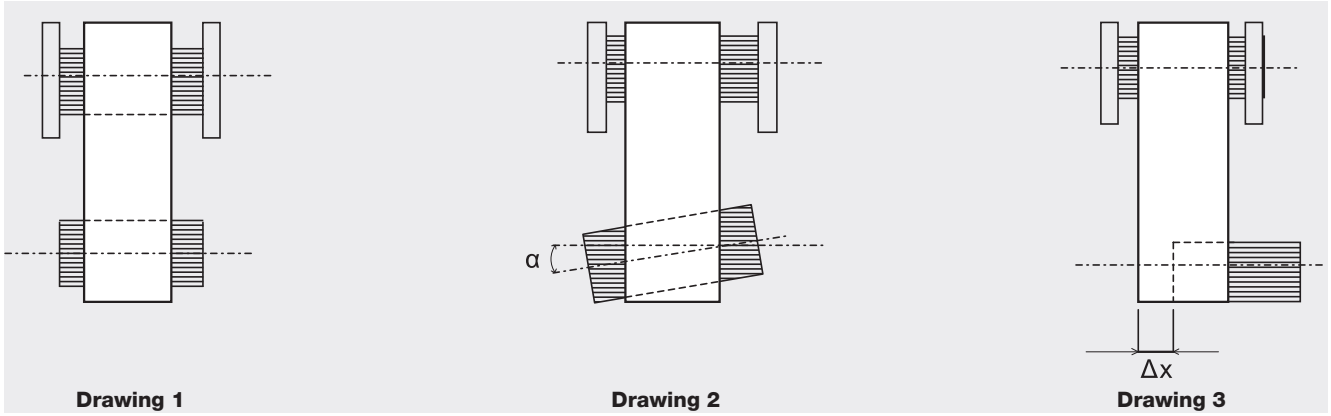
PROCEDURE TO MEASURE

The procedure to measure the tension of the belt is to use a Belt Tension Gauging Equipement. 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 vibrations are detected and the frequency of vibration is then displayed on the measuring unit. The relation between belt static tension (T_S) and frequency of vibration (f) may be calculated using the following formula:

$$f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m}} \quad \text{or} \quad T_s = 4 \cdot m \cdot t^2 \cdot f^2$$

Where :	
T_S = static tension (N)	f = Frequency of vibration in Hertz (Hz)
m = Belt mass per unit length (kg/m)	t = Free belt span length in meters (m)

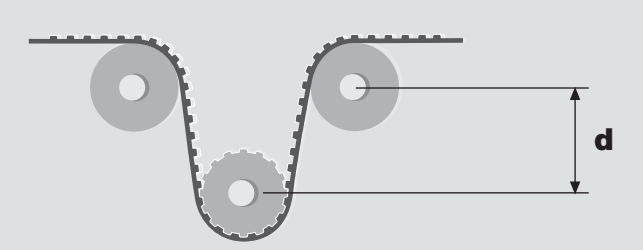
For a correct system functioning and to increase belt life, it is necessary a correct pulley installation: pulleys has to be parallel and aligned as shown in drawing 1 (correct configuration).
If pulleys are not parallel as in drawing 2, belt could fall during functioning and this can provoke damages to complete equipment.
To grant a correct belt running, α and Δx must be as smaller as possible. For more information, please contact our technical staff.



Drawing 1 **Drawing 2** **Drawing 3**

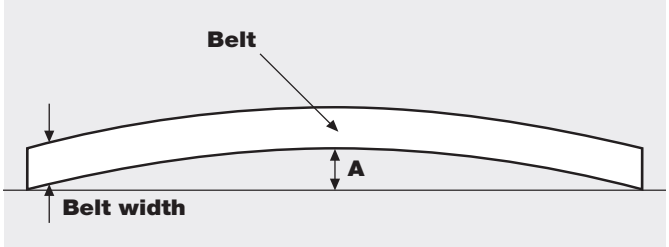
In omega application to grant good mesh between pulley and teeth and to respect belt flexibility avoiding excessive stress on cords, distance d (as drawing 4) has to be:

d = 4 • belt width
Suggested angle 120°



Drawing 4

Moreover for a good drive work, it is suggested to check belt straigthness as follows:



Belt width	Testing belt length	Maximum suggested bending (A)
Till to 20 mm	1 m	3 mm
Over 20 mm	2 m	4 mm

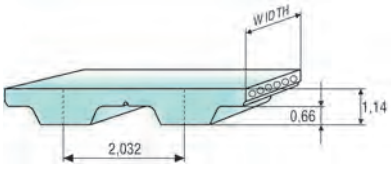
MEGALINEAR MXL OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	017	037	050
STANDARD WIDTHS (mm)	**4,318**	**9,53**	**12,7**
Weight (gr/m)	8	16	24

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion kevlar cords**
Standard width tolerance: **+/– 0,38 mm**
Standard thickness: **1,14 +/– 0,13 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Antistatic compound

TOOTH PROFILE ACCORDING ISO 5296-1



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000
$F_{p\ spec}$ (N/cm)	**7,3**	**7**	**6,8**	**6,7**	**6,6**	**6,4**	**5,9**	**5,7**	**5,4**	**5,2**	**4,9**	**4,6**	**4,2**	**4**	**3,6**	**3,25**

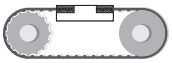
Minimum suggested number of teeth in clamp for linear movement: 7

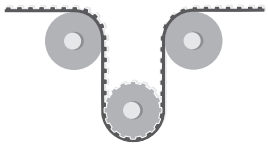
TRACTION RESISTANCE

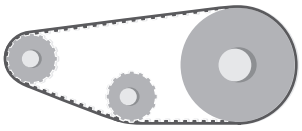
	Belt width (inch)	017	037	050
Kevlar	Max Traction Load (N)	240	450	600
	Breaking Strength (N)	960	1800	2405
	Elongation at MTL (mm/m)	8	8	8

Average values

FLEXION RESISTANCE

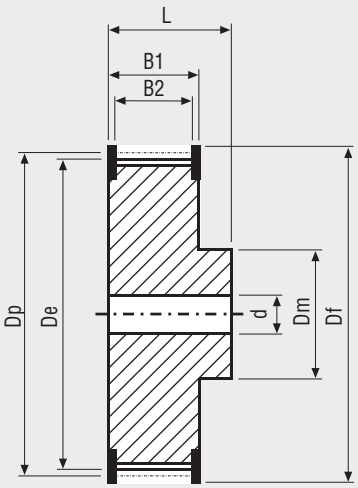






	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Kevlar cords	12	15	30	12	20

PULLEYS (for more details please see our pulleys catalogue)



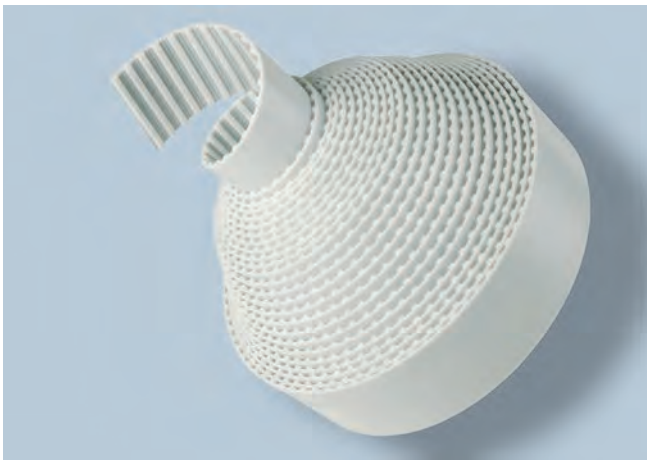
N° Teeth	Dp	De	N° Teeth	Dp	De
10	6,47	5,96	26	16,81	16,30
12	7,76	7,25	28	18,11	17,60
13	8,41	7,90	30	19,40	18,89
14	9,06	8,55	32	20,70	20,19
15	9,70	9,19	34	21,99	21,48
16	10,35	9,84	36	23,29	22,78
17	11,00	10,49	40	25,87	25,36
18	11,64	11,13	42	27,17	26,66
19	12,29	11,78	44	28,46	27,95
20	12,94	12,43	48	31,05	30,54
21	13,58	13,07	60	38,81	38,30
22	14,23	13,72	65	42,04	41,53
24	15,52	15,01	72	46,57	46,06

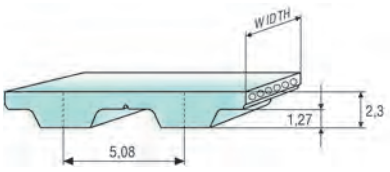
MEGALINEAR XL OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	025	037	050	075	100	150	200
STANDARD WIDTHS (mm)	**6,35**	**9,53**	**12,7**	**19,05**	**25,4**	**38,1**	**50,8**
Weight (gr/m)	15	20	30	45	60	90	120

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **2,3 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 5296-1

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**19**	**19**	**18**	**18**	**17**	**17**	**16**	**15**	**15**	**14**	**13**	**13**	**12**	**11**	**10**	**9**	**8**	**7**

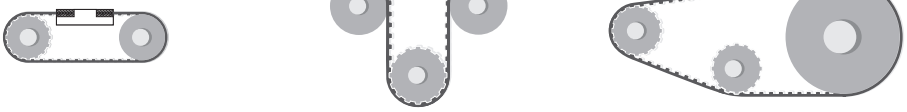
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (inch)	025	037	050	075	100	150	200
Steel	Max Traction Load (N)	155	250	375	625	840	1310	1750
	Breaking Strength (N)	625	1000	1500	2500	3375	5250	7000
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	230	370	560	935	1260	1965	2755
	Breaking Strength (N)	935	1495	2245	3740	5050	7860	10480
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
Stainless	Max Traction Load (N)	125	205	305	515	695	–	–
	Breaking Strength (N)	515	820	1235	2060	2780	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	–	–

Average values

FLEXION RESISTANCE

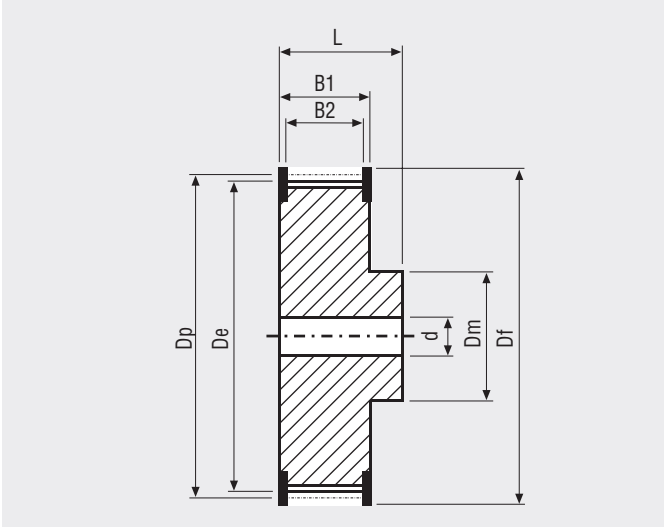


	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	10	15	30	10	30
Kevlar cords	10	15	30	10	20
Stainless steel cords	13	15	35	13	35

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



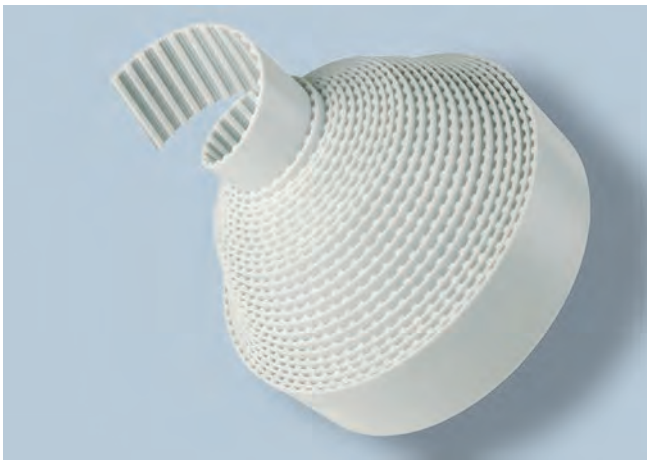
N° Teeth	Dp	De	N° Teeth	Dp	De
10	16,17	15,66	26	42,04	41,53
11	17,79	17,28	27	43,67	43,16
12	19,40	18,89	28	45,28	44,77
13	21,02	20,51	29	46,89	46,38
14	22,64	22,13	30	48,51	48,00
15	24,26	23,75	32	51,74	51,23
16	25,87	25,36	34	54,98	54,47
17	27,49	26,98	35	56,60	56,09
18	29,11	28,60	36	58,21	57,70
19	30,72	30,21	38	61,45	60,94
20	32,34	31,83	39	63,06	62,55
21	33,96	33,45	40	64,68	64,17
22	35,57	35,07	42	67,91	67,40
24	38,81	38,30	44	71,15	70,64

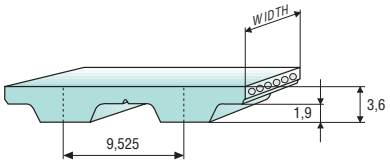
MEGALINEAR L OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	037	050	075	100	150	200	400
STANDARD WIDTHS (mm)	**9,53**	**12,7**	**19,05**	**25,4**	**38,1**	**50,8**	**101,6**
Weight (gr/m)	35	45	65	90	135	180	325

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **3,6 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 5296-1

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**37**	**36**	**35**	**35**	**34**	**33**	**31**	**29**	**28**	**27**	**24**	**23**	**20**	**19**	**16**	**15**	**13**	**11**

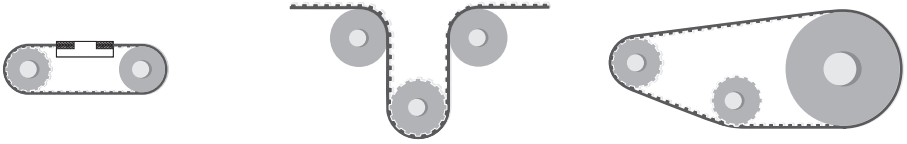
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (inch)	037	050	075	100	150	200	400
Steel	Max Traction Load (N)	600	800	1340	1805	2810	3750	7500
	Breaking Strength (N)	2410	3215	5360	7235	11255	15005	26260
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	740	985	1645	2225	3460	4860	9230
	Breaking Strength (N)	2965	3955	6595	8900	13850	18465	32320
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
Stainless	Max Traction Load (N)	530	705	1180	1590	–	–	–
	Breaking Strength (N)	2120	2830	4724	6370	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	–	–	–

Average values

FLEXION RESISTANCE

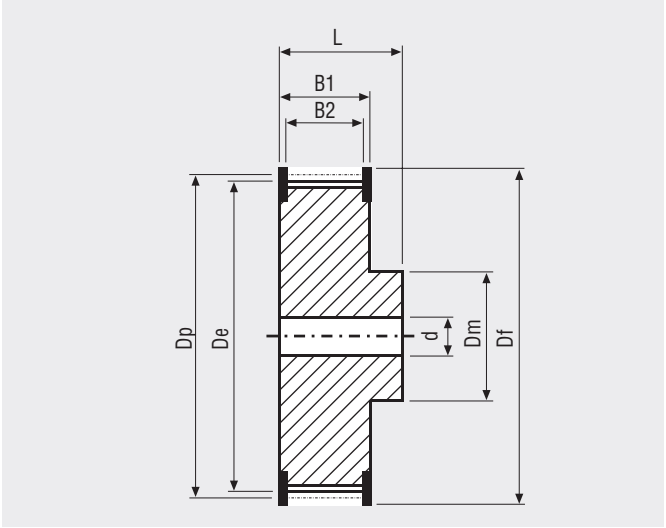


	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	15	20	60	15	60
Kevlar cords	15	20	60	15	60
Stainless steel cords	18	20	65	18	65

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



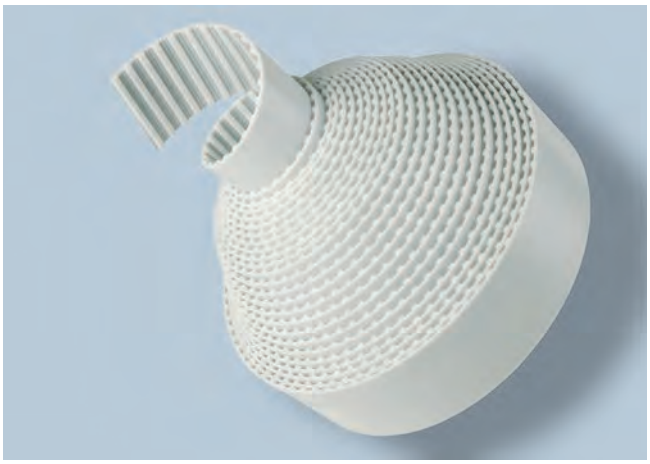
N° Teeth	Dp	De	N° Teeth	Dp	De
15	45,48	44,72	27	81,86	81,10
16	48,51	47,75	28	84,89	84,13
17	51,54	50,78	29	87,93	87,17
18	54,57	53,81	30	90,96	90,20
19	57,61	56,85	32	97,02	96,26
20	60,64	59,88	34	103,08	102,32
21	63,67	62,91	36	109,15	108,39
22	66,70	65,94	40	121,28	120,52
23	69,73	68,97	44	133,40	132,64
24	72,77	72,01	48	145,53	144,76
25	75,80	75,04	56	169,79	169,03
26	78,83	78,07			

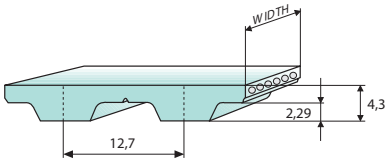
MEGALINEAR H OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	050	075	100	150	200	300	400	600
STANDARD WIDTHS (mm)	**12,7**	**19,05**	**25,4**	**38,1**	**50,8**	**76,2**	**101,6**	**152,4**
Weight (gr/m)	55	80	110	160	215	325	430	645

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **4,3 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 5296-1

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**44**	**43**	**42**	**41**	**40**	**39**	**36**	**34**	**33**	**31**	**29**	**27**	**24**	**22**	**19**	**17**	**16**	**12**

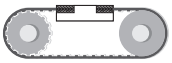
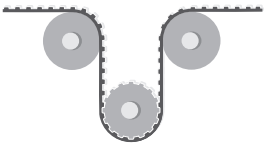
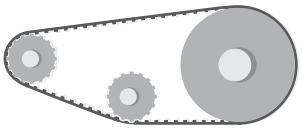
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (inch)	050	075	100	150	200	300	400	600
Steel	Max Traction Load (N)	1050	1785	2415	3675	5040	8065	11760	12480
	Breaking Strength (N)	4200	7140	9660	14700	20160	30660	41160	43680
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	915	1570	2095	3270	4685	7165	10475	15560
	Breaking Strength (N)	3665	6285	8380	13095	17805	27235	36665	54475
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8
Stainless	Max Traction Load (N)	950	1615	2190	3330	4570	–	–	–
	Breaking Strength (N)	3810	6475	8760	13335	18285	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	–	–	–

Average values

FLEXION RESISTANCE

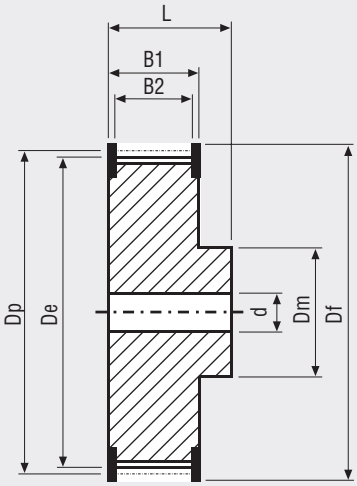




	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	14	20	80	14	60
Kevlar cords	14	20	80	14	60
Stainless steel cords	18	20	80	18	65

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



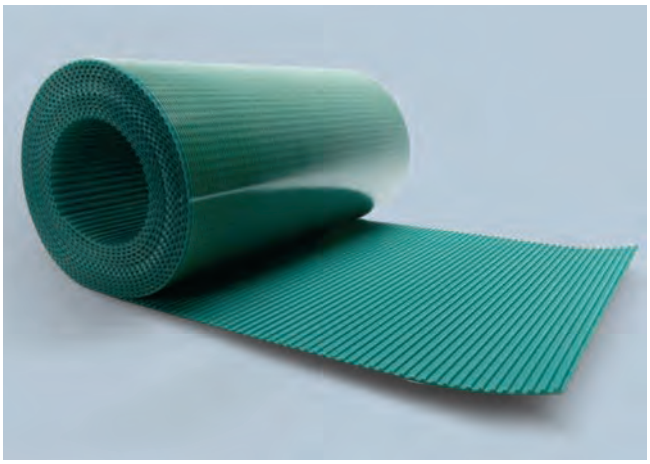
N° Teeth	Dp	De	N° Teeth	Dp	De
14	56,60	55,23	28	113,19	111,82
15	60,64	59,27	29	117,23	115,86
16	64,68	63,31	30	121,28	119,91
17	68,72	67,35	32	129,36	127,99
18	72,77	71,40	33	133,40	132,03
19	76,81	75,44	34	137,45	136,08
20	80,85	79,48	35	141,49	140,12
21	84,89	83,52	36	145,53	144,16
22	88,94	87,57	38	153,62	152,25
23	92,98	91,61	40	161,70	160,33
24	97,02	95,65	44	177,87	176,50
25	101,06	99,69	48	194,04	192,67
26	105,11	103,74	52	210,21	208,84
27	109,15	107,78	60	242,55	241,18

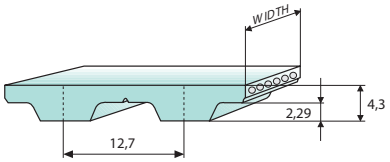
MEGALINEAR H WIDE OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	800	1000	1200	1600	2000
STANDARD WIDTHS (mm)	**203,2**	**254**	**304,8**	**406,4**	**508**
Weight (gr/m)	410	510	615	820	1020

Standard compound: **transparent Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion kevlar at pitch 3,2 mm**
Standard width tolerance: **+/– 0,2 mm**
Standard thickness: **4,3 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound





TOOTH PROFILE ACCORDING ISO 5296-1

TOOTH RESISTANCE

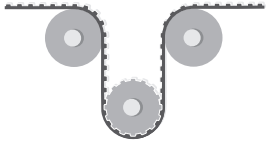
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000
$F_{p\ spec}$ (N/cm)	**31**	**30**	**29**	**29**	**28**	**27**	**25**	**24**	**23**	**21**	**20**	**19**

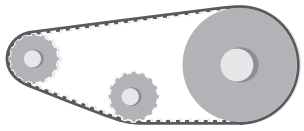
TRACTION RESISTANCE

	Belt width (inch)	800	1000	1200	1600	2000
Kevlar	Max Traction Load (N)	8530	10475	12570	16910	20950
	Breaking Strength (N)	29855	36665	43995	59185	73330
	Elongation at MTL (mm/m)	8	8	8	8	8

Average values

FLEXION RESISTANCE



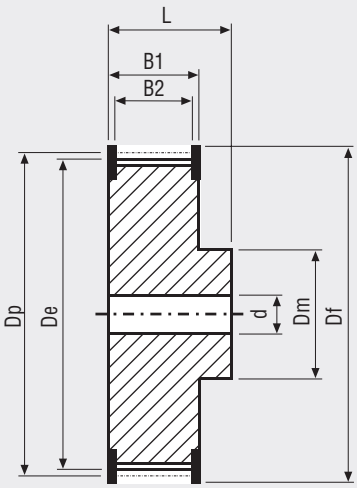


	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Kevlar cords	20	80	14	60

JOINED BELT INFORMATION

- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table

PULLEYS (for more details please see our pulleys catalogue)



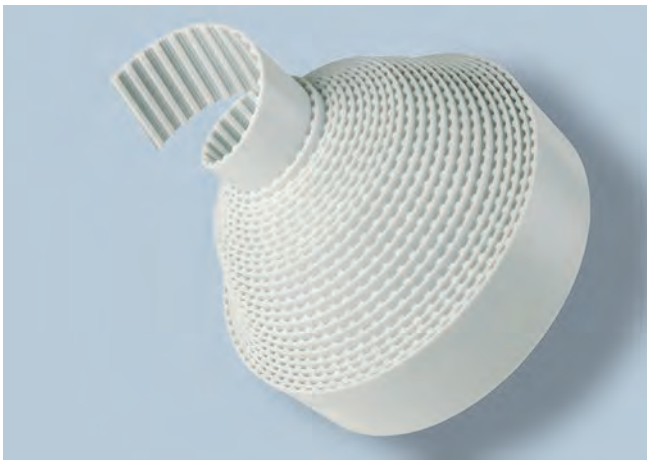
N° Teeth	Dp	De	N° Teeth	Dp	De
14	56,60	55,23	28	113,19	111,82
15	60,64	59,27	29	117,23	115,86
16	64,68	63,31	30	121,28	119,91
17	68,72	67,35	32	129,36	127,99
18	72,77	71,40	33	133,40	132,03
19	76,81	75,44	34	137,45	136,08
20	80,85	79,48	35	141,49	140,12
21	84,89	83,52	36	145,53	144,16
22	88,94	87,57	38	153,62	152,25
23	92,98	91,61	40	161,70	160,33
24	97,02	95,65	44	177,87	176,50
25	101,06	99,69	48	194,04	192,67
26	105,11	103,74	52	210,21	208,84
27	109,15	107,78	60	242,55	241,18

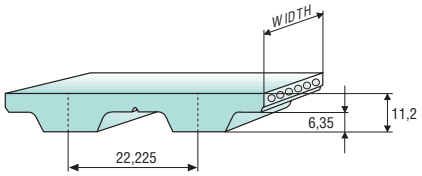
MEGALINEAR XH OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	100	150	200	300	400	600
STANDARD WIDTHS (mm)	**25,4**	**38,1**	**50,8**	**76,2**	**101,6**	**152,4**
Weight (gr/m)	250	400	530	795	1060	1625

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard thickness: **11,2 +/– 0,5 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 5296-1

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000
$F_{p\ spec}$ (N/cm)	**115**	**111**	**108**	**105**	**103**	**101**	**92**	**86**	**81**	**78**	**70**	**65**	**57**	**51**	**43**	**37**

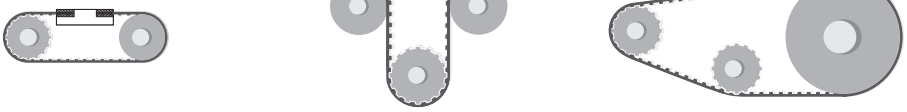
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (inch)	100	150	200	300	400	600
Steel	Max Traction Load (N)	3800	5935	8075	13000	19000	28225
	Breaking Strength (N)	15200	23750	32300	49400	66500	98800
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	5045	7990	11515	17715	25965	39425
	Breaking Strength (N)	20195	31975	43755	67315	90875	138000
	Elongation at MTL (mm/m)	8	8	8	8	8	8
Stainless	Max Traction Load (N)	3175	4960	6745	–	–	–
	Breaking Strength (N)	12700	19850	26995	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	–	–	–

Average values

FLEXION RESISTANCE

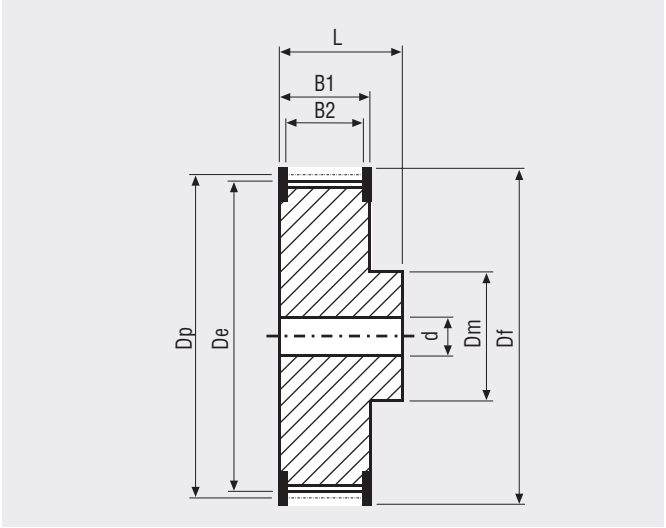


	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	18	20	180	18	150
Kevlar cords	18	20	180	18	150
Stainless steel cords	23	25	180	23	165

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



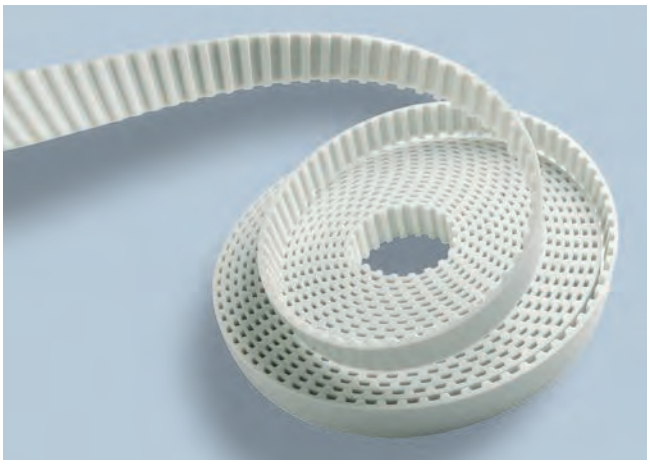
N° Teeth	Dp	De	N° Teeth	Dp	De
18	127,34	124,55	40	282,98	280,19
20	141,49	138,70	44	311,28	308,48
22	155,64	152,83	48	339,57	336,78
24	169,79	167,00	60	424,47	421,68
26	183,92	181,13	72	509,36	506,57
28	198,08	195,29	84	594,25	591,46
30	212,23	209,44	96	679,15	676,35
32	226,38	223,59	120	848,93	846,14

MEGALINEAR T2,5 OPEN-END

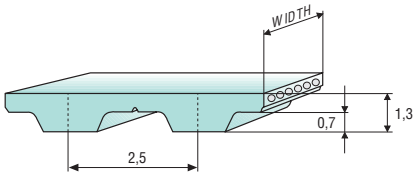
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	16	20
Weight (gr/m)	14	23	28

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **one torsion zinked steel**
Standard width tolerance: **+/– 0,3 mm**
Standard thickness: **1,3 +/– 0,15 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**



TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000
$F_{p\ spec}$ (N/cm)	**9**	**8,7**	**8,4**	**8,2**	**8,1**	**7,9**	**7,3**	**7**	**6,7**	**6,4**	**6**	**5,7**	**5,2**	**4,9**	**4,4**	**4**

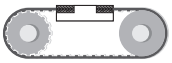
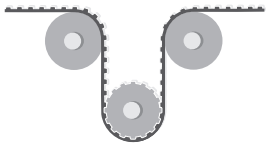
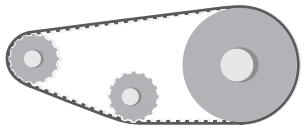
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	16	20
Steel	Max Traction Load (N)	105	170	215
	Breaking Strength (N)	435	695	870
	Elongation at MTL (mm/m)	4	4	4

Average values

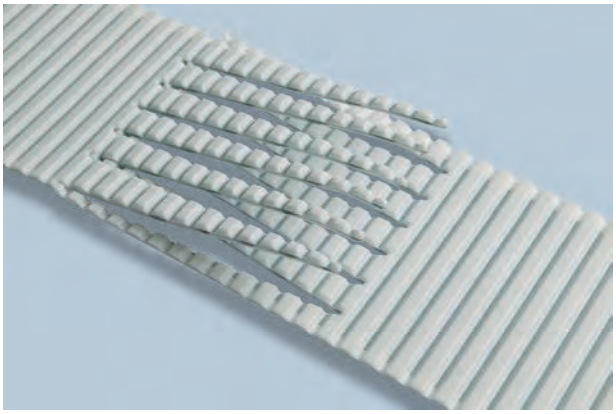
FLEXION RESISTANCE

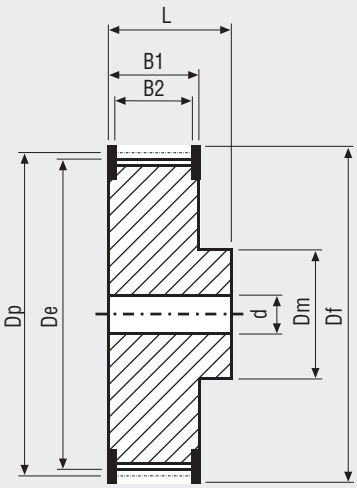
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cord	10	18	15	10	18

JOINED BELT INFORMATION

- Minimum splice length 500 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Minimum diameters according above table



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
10	7,96	7,45	22	17,51	17,00
11	8,75	8,25	24	19,10	18,55
12	9,55	9,00	26	20,69	20,15
13	10,34	9,80	28	22,28	21,75
14	11,14	10,60	30	23,87	23,35
15	11,94	11,40	32	25,46	24,95
16	12,73	12,20	36	28,65	28,10
17	13,53	13,00	40	31,83	31,30
18	14,32	13,80	44	35,01	34,50
19	15,12	14,60	48	38,20	37,70
20	15,92	15,40	60	47,75	47,25
21	16,71	16,20	72	55,20	55,20

MEGALINEAR T5 OPEN-END

BELT CHARACTERISTICS

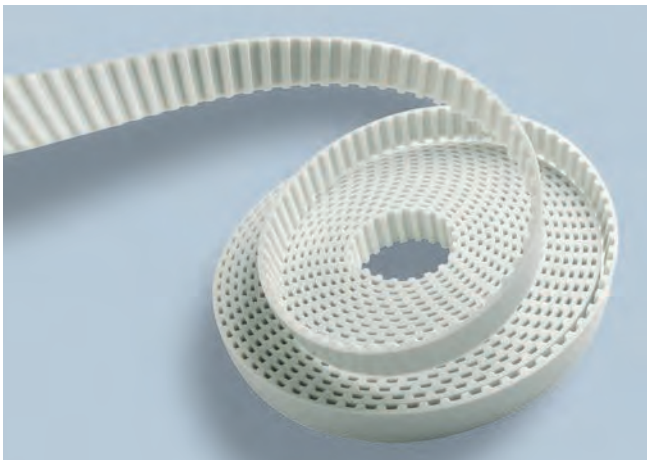
STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100	150
Weight (gr/m)	15	20	35	55	70	105	160	215	330

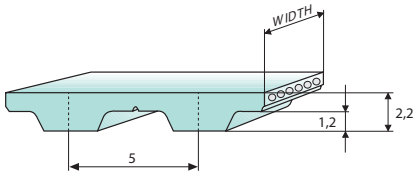
Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **2,2 +/– 0,15 mm**
Standard thickness with NFT-NFB: **2,4 +/-0,15 mm***
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:

Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats

Different back coating materials see page 118

TOOTH PROFILE ACCORDING ISO 17396





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**24**	**23**	**23**	**22**	**22**	**22**	**20**	**19**	**19**	**18**	**17**	**16**	**15**	**14**	**12**	**11**	**11**	**9**

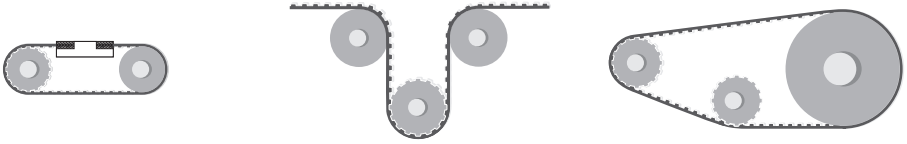
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	6	10	16	25	32	50	75	100	150
Steel	Max Traction Load (N)	185	375	500	840	1060	1750	2400	3220	3640
	Breaking Strength (N)	750	1500	2000	3375	4250	7000	9125	12250	12750
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	490	985	1315	2225	2800	4615	6335	8505	9610
	Breaking Strength (N)	1975	3955	5275	8900	11210	18465	24075	32320	33635
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8	8
HP	Max Traction Load (N)	–	585	780	1315	1655	2730	3745	5025	–
	Breaking Strength (N)	–	2340	3120	5265	6630	10920	14235	19110	–
	Elongation at MTL (mm/m)	–	4	4	4	4	4	4	4	–
HF	Max Traction Load (N)	–	490	655	1105	1390	2295	3150	4225	–
	Breaking Strength (N)	–	1965	2620	4425	5575	9180	11970	16070	–
	Elongation at MTL (mm/m)	–	5	5	5	5	5	5	5	–
Stainless	Max Traction Load (N)	155	305	410	695	–	–	–	–	–
	Breaking Strength (N)	615	1235	1645	2780	–	–	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	–	–	–	–	–

Average values

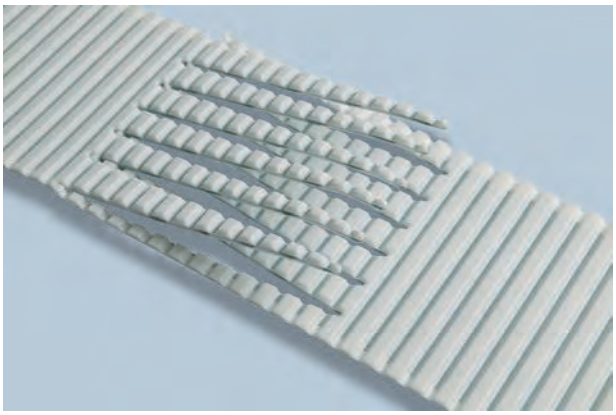
FLEXION RESISTANCE



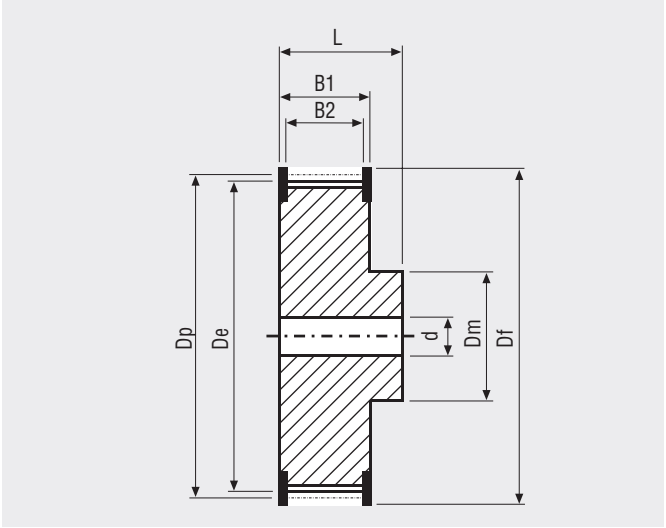
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	10	15	30	10	30
Kevlar cords	12	15	30	12	30
High Power cords	15	15	40	15	60
High Flexibility cords	10	12	30	10	30
Stainless steel cords	15	18	40	15	40

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



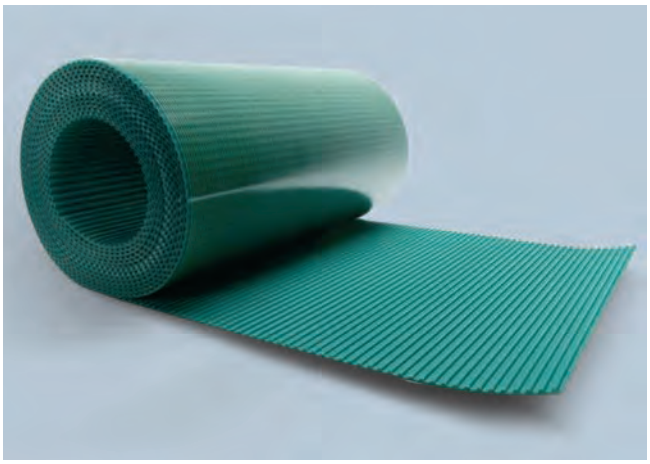
N° Teeth	Dp	De	N° Teeth	Dp	De
10	15,92	15,09	25	39,79	38,96
12	19,10	18,27	28	44,56	43,73
14	22,28	21,45	30	47,75	46,92
15	23,87	23,04	32	50,93	50,10
16	25,46	24,64	36	57,30	56,47
18	28,65	27,82	40	63,66	62,93
19	30,24	29,41	42	66,85	66,02
20	31,83	31,00	44	70,03	69,20
22	35,01	34,19	48	76,39	75,57
24	38,20	37,37	60	95,49	94,67

MEGALINEAR T5 WIDE OPEN-END

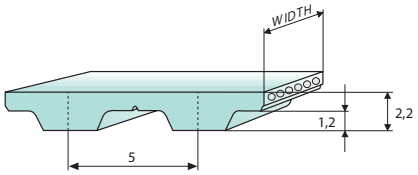
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	250	500
Weight (gr/m)	500	1000

Standard compound: **transparent Polyurethane thermoplastic 90 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion Kevlar at pitch 3,5 mm**
Standard width tolerance: **+/– 2 mm**
Standard thickness: **2,2 +/– 0,15 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Transparent FDA compound



TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

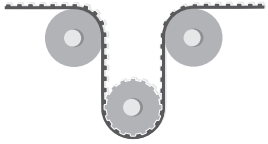
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000
$F_{p\ spec}$ (N/cm)	**17**	**16**	**16**	**15**	**15**	**15**	**14**	**13**	**13**	**12**	**12**	**11**

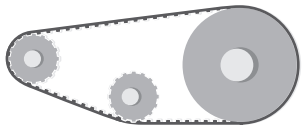
TRACTION RESISTANCE

	Belt width (mm)	250	500
Kevlar	Max Traction Load (N)	6595	13190
	Breaking Strength (N)	23085	46170
	Elongation at MTL (mm/m)	8	8

Average values

FLEXION RESISTANCE



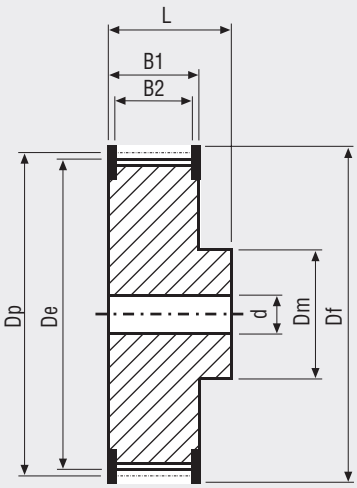


	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Kevlar cords	15	45	12	45

JOINED BELT INFORMATION

- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table

PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
10	15,92	15,09	25	39,79	38,96
12	19,10	18,275	28	44,56	43,73
14	22,28	21,45	30	47,75	46,92
15	23,87	23,04	32	50,93	50,10
16	25,46	24,64	36	57,30	56,47
18	28,65	27,82	40	63,66	62,93
19	30,24	29,41	42	66,85	66,02
20	31,83	31,00	44	70,03	69,20
22	35,01	34,19	48	76,39	75,57
24	38,20	37,37	60	95,49	94,67

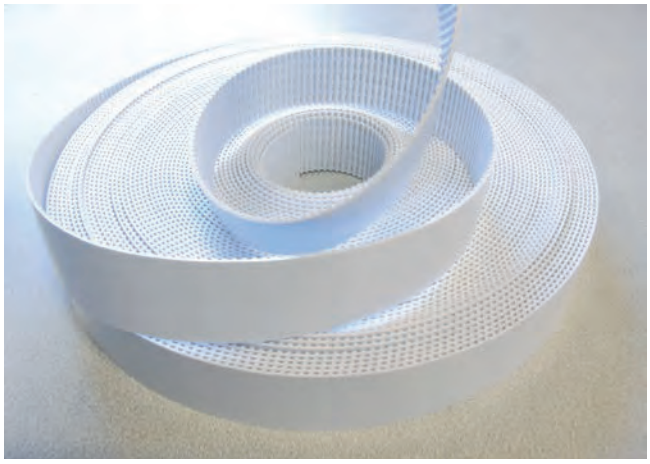
MEGALINEAR TT5 FOR KNITTING MACHINE

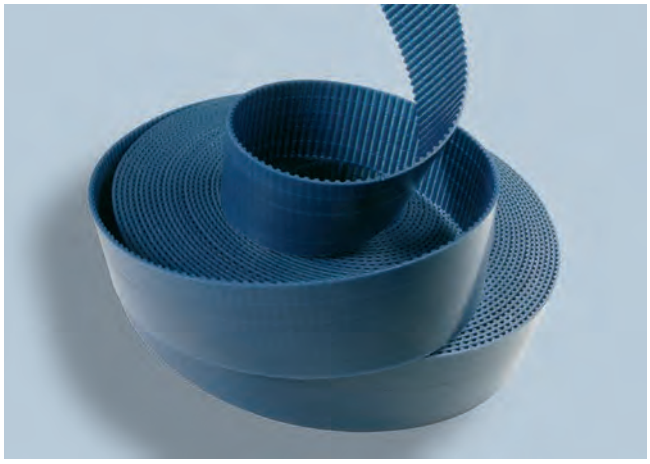
BELT CHARACTERISTICS

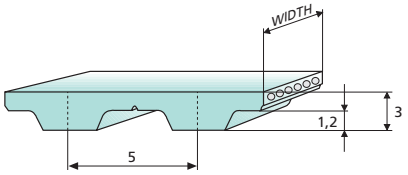
STANDARD WIDTHS (mm)	**10**
Weight (gr/m)	20

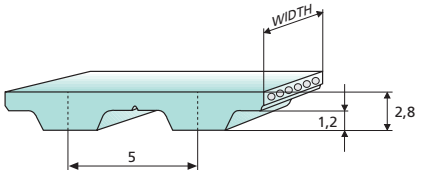
Standard compound: **white Polyurethane thermoplastic 88 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **3 + 0,2/– 0,1 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**

Standard compound: **blue Polyurethane thermoplastic 88 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion kevlar**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **2,8 +/– 0,15 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**









TOOTH PROFILE ACCORDING ISO 17396

TOOTH RESISTANCE

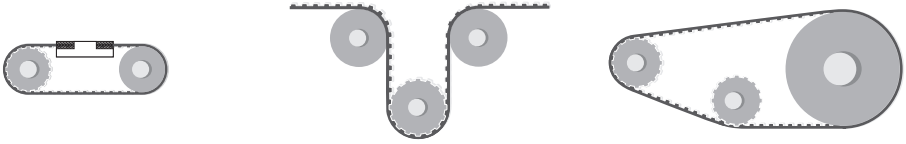
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**24**	**23**	**23**	**22**	**22**	**22**	**20**	**19**	**19**	**18**	**17**	**16**	**15**	**14**	**12**	**11**	**11**	**9**

TRACTION RESISTANCE

	Belt width (mm)	**10**
Steel	Max Traction Load (N)	375
	Breaking Strength (N)	1500
	Elongation at MTL (mm/m)	4
Kevlar	Max Traction Load (N)	795
	Breaking Strength (N)	3190
	Elongation at MTL (mm/m)	8

Average values

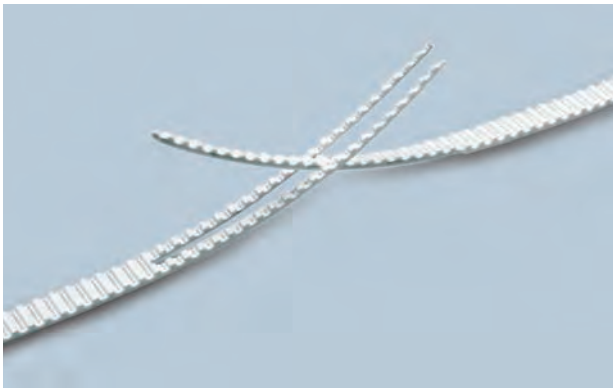
FLEXION RESISTANCE



	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	10	15	30	10	30
Kevlar cords	12	15	30	12	30

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, and NFB can be joined too
- Minimum diameters according above table



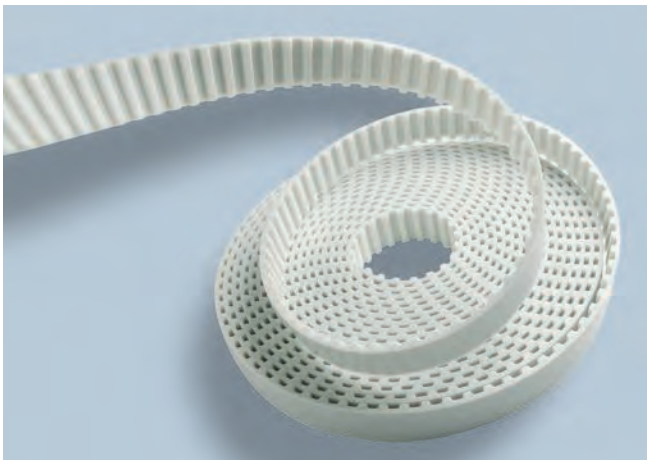
MEGALINEAR T10 OPEN-END

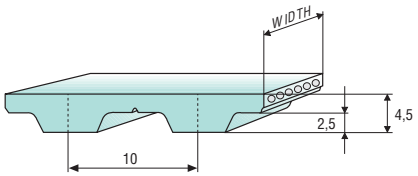
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	12	16	25	32	50	75	100	150
Weight (gr/m)	50	75	115	145	225	340	435	680

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **4,5 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:

Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
SUPERGRIP PVC
Cleats





Different back coating materials see page 118

TOOTH PROFILE ACCORDING ISO 17396

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**51**	**49**	**48**	**47**	**46**	**45**	**41**	**39**	**37**	**36**	**33**	**31**	**28**	**25**	**22**	**20**	**18**	**14**

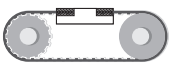
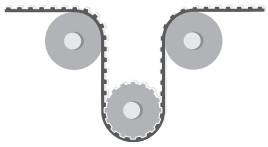
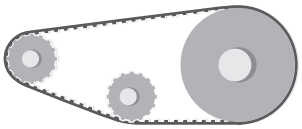
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	12	16	25	32	50	75	100	150
Steel	Max Traction Load (N)	1050	1470	2410	3045	5040	8065	10830	12480
	Breaking Strength (N)	4200	5880	9660	12180	20160	30660	41160	43680
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	915	1175	2095	2615	4450	7165	9645	15560
	Breaking Strength (N)	3665	4710	8380	10475	17805	27235	36665	54475
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8
HP	Max Traction Load (N)	1660	2135	3800	4750	8075	13000	17500	28225
	Breaking Strength (N)	6650	8550	15200	19000	32300	49400	66500	98800
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4
HF	Max Traction Load (N)	1100	1540	2530	3190	5280	8450	11345	13070
	Breaking Strength (N)	4400	6160	10120	12760	21120	32120	43120	45760
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	5
HPF	Max Traction Load (N)	–	2385	4240	5300	9010	14505	19525	31495
	Breaking Strength (N)	–	9540	16960	21200	36040	55120	74200	110240
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	5
Stainless	Max Traction Load (N)	950	1330	2190	2760	4570	–	–	–
	Breaking Strength (N)	3810	5330	8760	11045	18285	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	–	–	–

Average values

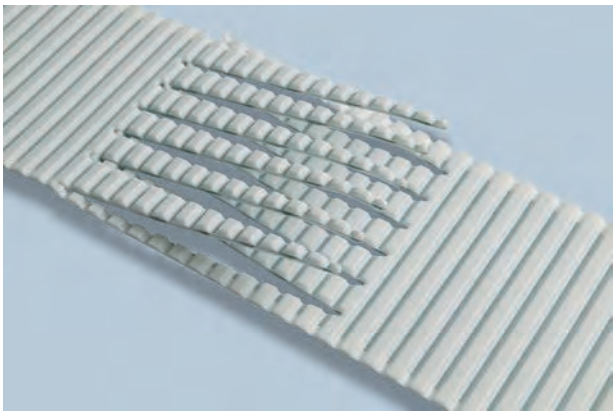
FLEXION RESISTANCE

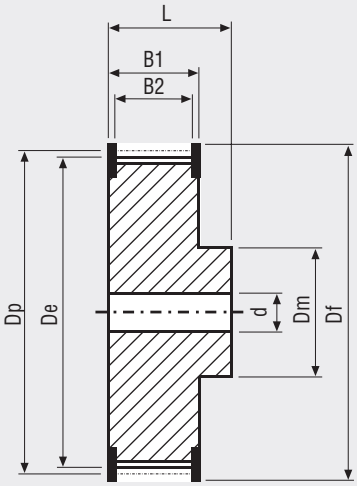
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	12	20	60	12	60
Kevlar cords	15	20	60	15	60
High Power cords	15	20	100	15	100
High Flexibility cords	12	15	50	12	50
High Power Flexible cords	14	20	80	14	80
Stainless steel cords	15	20	70	15	70

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
12	38,20	36,35	26	82,76	80,91
14	44,56	42,71	27	85,94	84,10
15	47,75	45,90	28	89,13	87,28
16	50,93	49,08	30	95,49	93,65
18	57,30	55,45	32	101,86	100,01
19	60,48	58,63	36	114,59	112,74
20	63,66	61,81	40	127,32	125,48
22	70,03	68,18	44	140,06	138,21
24	76,39	74,55	48	152,79	150,94
25	79,58	77,73	60	190,99	189,14

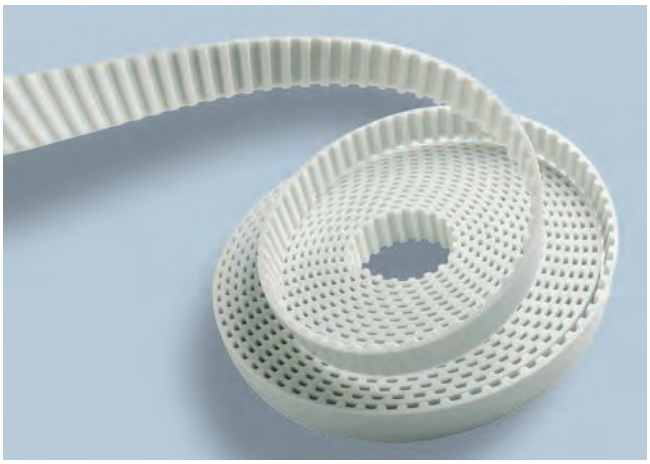
MEGALINEAR T10 WITHOUT GAP OPEN-END

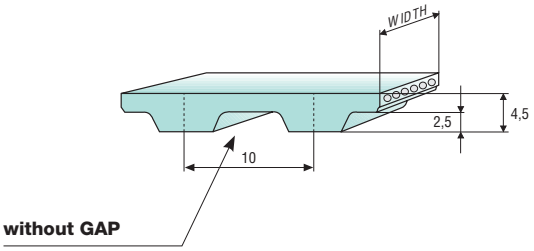
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	16	25	32	50	75
Weight (gr/m)	74	115	148	230	345

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **4,5 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**

TOOTH PROFILE ACCORDING ISO 17396





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**51**	**49**	**48**	**47**	**46**	**45**	**41**	**39**	**37**	**36**	**33**	**31**	**28**	**25**	**22**	**20**	**18**	**14**

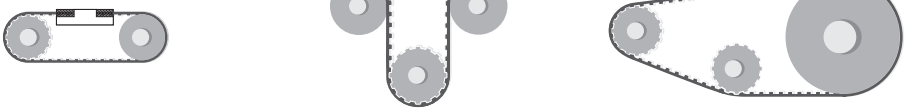
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	16	25	32	50	75
Steel	Max Traction Load (N)	1365	2310	2940	4830	7955
	Breaking Strength (N)	5460	9240	11760	19320	30240
	Elongation at MTL (mm/m)	4	4	4	4	4
Kevlar	Max Traction Load (N)	1700	2880	3665	6020	9920
	Breaking Strength (N)	6805	11520	14665	24090	37710
	Elongation at MTL (mm/m)	8	8	8	8	8

Average values

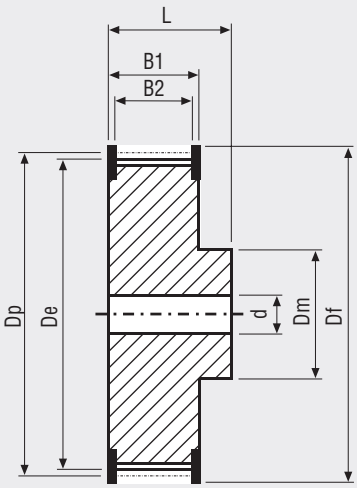
FLEXION RESISTANCE



	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	12	20	60	12	60
Kevlar cords	15	20	60	15	60

TYPICAL APPLICATION - CAR WASHING MACHINE

PULLEYS (for more details please see our pulleys catalogue)



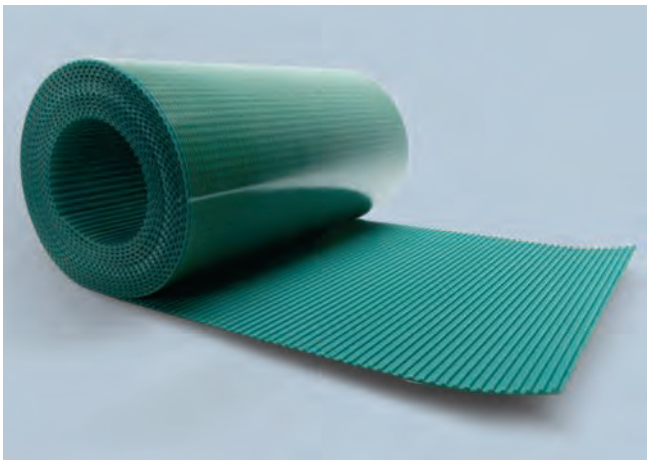
N° Teeth	Dp	De	N° Teeth	Dp	De
12	38,20	36,35	26	82,76	80,91
14	44,56	42,71	27	85,94	84,10
15	47,75	45,90	28	89,13	87,28
16	50,93	49,08	30	95,49	93,65
18	57,30	55,45	32	101,86	100,01
19	60,48	58,63	36	114,59	112,74
20	63,66	61,81	40	127,32	125,48
22	70,03	68,18	44	140,06	138,21
24	76,39	74,55	48	152,79	150,94
25	79,58	77,73	60	190,99	189,14

MEGALINEAR T10 WIDE OPEN-END

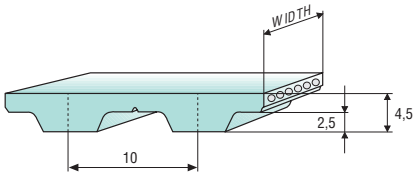
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	200	250	300	400	450	500
Weight (gr/m)	410	510	615	820	920	1020

Standard compound: **transparent Polyurethane thermoplastic 90 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion Kevlar at pitch 3,5 mm**
Standard width tolerance: **+/– 2 mm**
Standard thickness: **4,5 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic Nylon fabric
Transparent FDA compound



TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

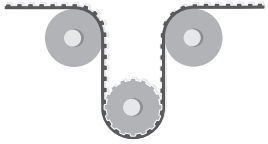
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000
$F_{p\ spec}$ (N/cm)	**36**	**34**	**34**	**33**	**32**	**31**	**29**	**27**	**26**	**25**	**23**	**22**

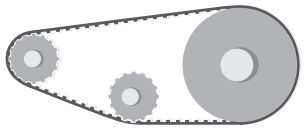
TRACTION RESISTANCE

	Belt width (mm)	200	250	300	400	450	500
Kevlar	Max Traction Load (N)	8530	10475	12570	16910	19005	20950
	Breaking Strength (N)	29855	36665	43995	69185	66520	73330
	Elongation at MTL (mm/m)	8	8	8	8	8	8

Average values

FLEXION RESISTANCE



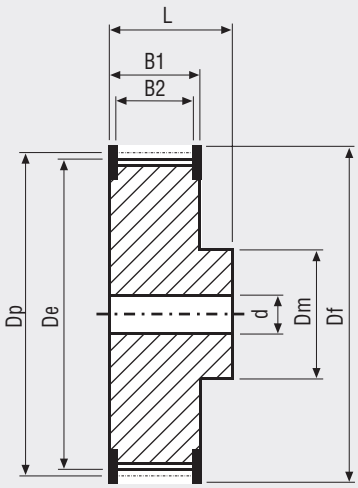


	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Kevlar cords	20	60	15	60

JOINED BELT INFORMATION

- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table

PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
12	38,20	36,35	26	82,76	80,91
14	44,56	42,71	27	85,94	84,10
15	47,75	45,90	28	89,13	87,28
16	50,93	49,08	30	95,49	93,65
18	57,30	55,45	32	101,86	100,01
19	60,48	58,63	36	114,59	112,74
20	63,66	61,81	40	127,32	125,48
22	70,03	68,18	44	140,06	138,21
24	76,39	74,55	48	152,79	150,94
25	79,58	77,73	60	190,99	189,14

MEGALINEAR T20 OPEN-END

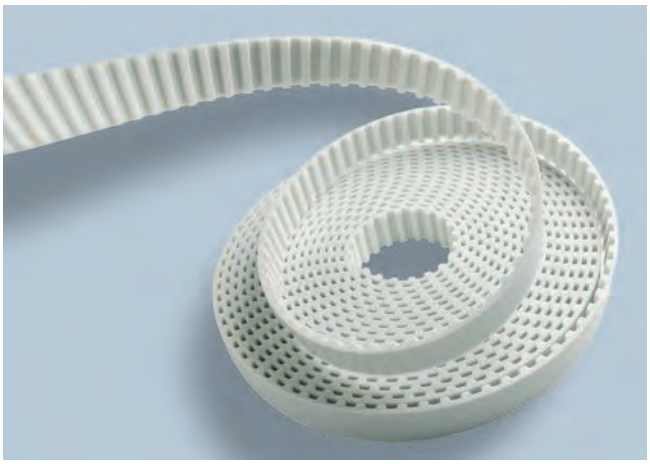
BELT CHARACTERISTICS

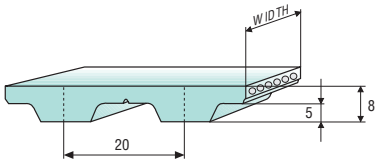
STANDARD WIDTHS (mm)	25	32	50	75	100	150
Weight (gr/m)	185	235	370	550	735	1095

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard thickness: **8 +/– 0,45 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats

Different back coating materials see page 118

TOOTH PROFILE ACCORDING ISO 17396





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**102**	**98**	**95**	**93**	**91**	**89**	**81**	**76**	**72**	**68**	**62**	**57**	**50**	**45**	**38**	**33**	**29**

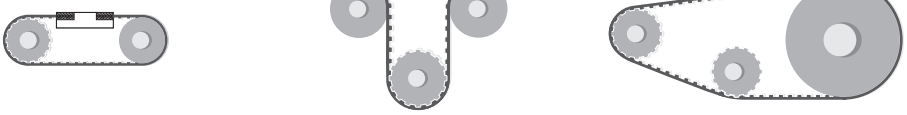
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25	32	50	75	100	150
Steel	Max Traction Load (N)	3800	4750	8075	13000	17500	28225
	Breaking Strength (N)	15200	19000	32300	49400	66500	98800
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	5045	6730	10935	17715	23915	39425
	Breaking Strength (N)	20195	26925	43755	67315	90875	138000
	Elongation at MTL (mm/m)	8	8	8	8	8	8
HP	Max Traction Load (N)	5190	6920	11245	18210	24580	40530
	Breaking Strength (N)	20760	27680	44980	69200	93420	141860
	Elongation at MTL (mm/m)	4	4	4	4	4	4
HF	Max Traction Load (N)	4240	5300	9090	14505	–	–
	Breaking Strength (N)	16960	21200	36040	55120	–	–
	Elongation at MTL (mm/m)	5	5	5	5	–	–
HPF	Max Traction Load (N)	5775	7700	12510	20260	–	–
	Breaking Strength (N)	23100	30800	50050	77000	–	–
	Elongation at MTL (mm/m)	5	5	5	5	–	–
Stainless	Max Traction Load (N)	3175	3970	6745	–	–	–
	Breaking Strength (N)	12700	15880	26995	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	–	–	–

Average values

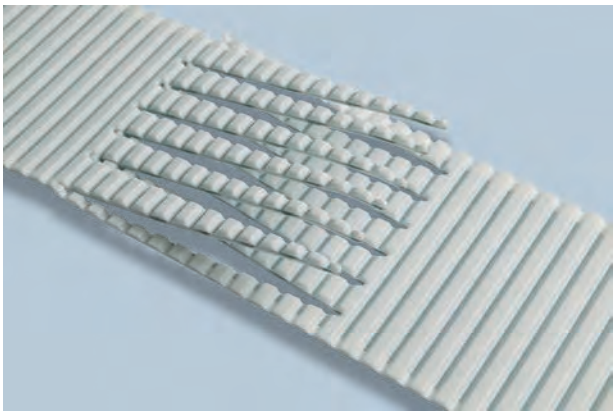
FLEXION RESISTANCE



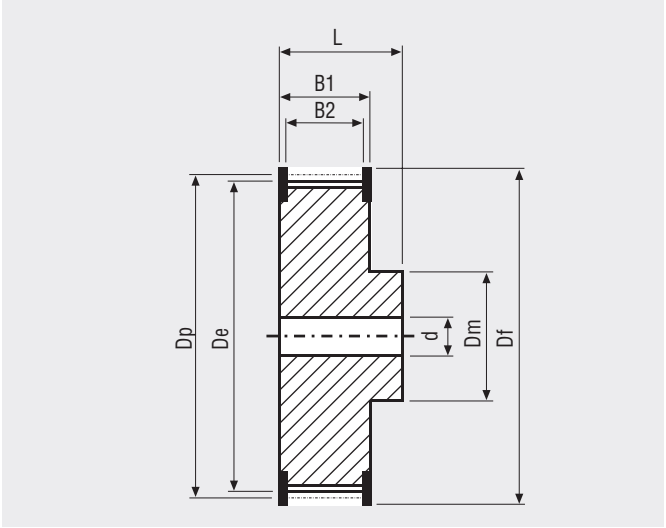
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	15	25	120	15	120
Kevlar cords	15	25	120	15	120
High Power cords	20	25	150	20	150
High Flexibility cords	15	20	120	15	120
High Power Flexible cords	18	25	120	18	120
Stainless steel cords	20	25	130	20	130

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



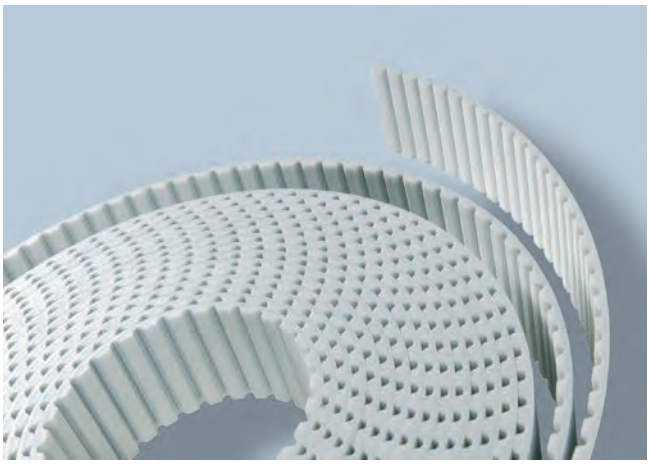
N° Teeth	Dp	De	N° Teeth	Dp	De
15	95,54	92,69	30	190,99	188,13
18	114,59	111,73	32	203,72	200,86
20	127,32	124,47	36	229,18	226,33
22	140,06	137,20	40	254,65	251,80
24	152,79	149,93	48	305,58	302,73
25	159,15	156,30	60	381,97	379,12

MEGALINEAR AT3 OPEN-END

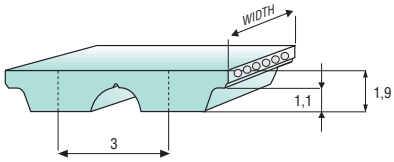
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	20	25	50
Weight (gr/m)	20	45	60	115

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **1,9 +/– 0,1 mm**
Standard length tolerance: **+/– 0,5 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Different back coating materials see page 118



TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**24**	**24**	**24**	**23**	**23**	**23**	**22**	**21**	**21**	**20**	**19**	**18**	**16**	**15**	**14**	**13**	**12**	**10**

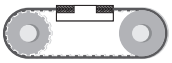
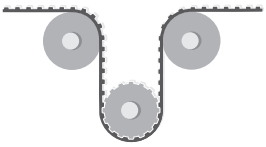
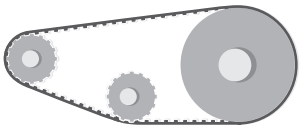
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	20	25	50
Steel	Max Traction Load (N)	410	820	1065	2170
	Breaking Strength (N)	1640	3280	4260	8690
	Elongation at MTL (mm/m)	4	4	4	4

Average values

FLEXION RESISTANCE

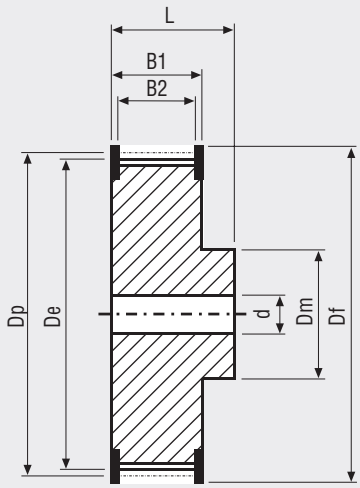




	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	20	25	30	20	30

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
20	19,10	18,69	36	34,39	33,97
22	21,01	20,6	40	38,21	37,79
24	22,92	22,51	44	42,03	41,61
25	23,88	23,46	45	42,99	42,56
27	25,79	25,37	48	45,85	45,43
30	28,66	28,24	60	57,32	58,69
32	30,57	30,15	72	68,78	68,34

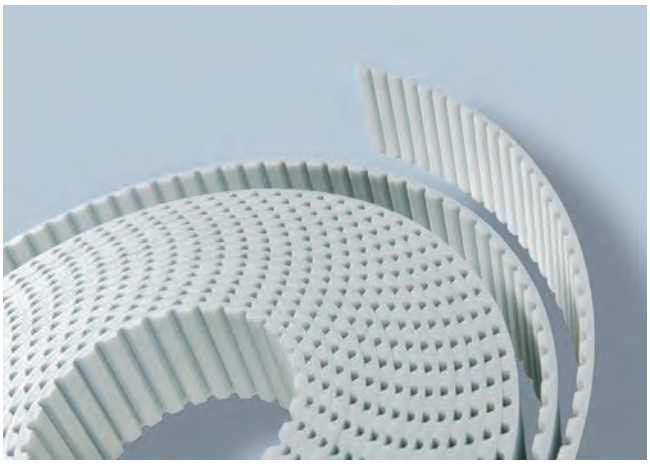
MEGALINEAR AT5 OPEN-END

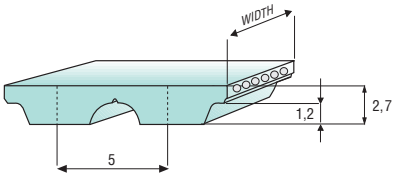
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100
Weight (gr/m)	20	35	50	80	105	165	245	340

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **2,7 +/– 0,2 mm**
Standard length tolerance: **+/– 0,8 mm/m**
HP+HPF cord lenght tolerance: **+0/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Cleats

Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 17396

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**35**	**35**	**35**	**34**	**34**	**34**	**32**	**31**	**30**	**29**	**27**	**26**	**24**	**22**	**19**	**18**	**16**	**13**

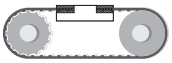
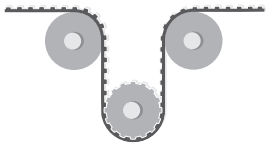
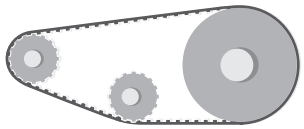
Minimum suggested number of teeth in clamp for linear movement: 7 - HP/HPF cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

	Belt width (mm)	6	10	16	25	32	50	75	100
Steel	Max Traction Load (N)	400	670	1070	1805	2275	3750	5145	6910
	Breaking Strength (N)	1605	2680	4285	7235	9110	15005	19560	26260
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	490	820	1315	2225	2800	4615	6335	8505
	Breaking Strength (N)	1975	3295	5275	8900	11210	18465	24075	32320
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8
HP	Max Traction Load (N)	–	840	1470	2415	3045	5040	–	–
	Breaking Strength (N)	–	3360	5880	9660	12180	20160	–	–
	Elongation at MTL (mm/m)	–	4	4	4	4	4	–	–
HF	Max Traction Load (N)	–	685	1100	1855	2335	3850	–	–
	Breaking Strength (N)	–	2750	4400	7425	9350	15400	–	–
	Elongation at MTL (mm/m)	–	5	5	5	5	5	–	–
HPF	Max Traction Load (N)	–	880	1540	2530	3190	5280	–	–
	Breaking Strength (N)	–	3520	6160	10120	12760	21120	–	–
	Elongation at MTL (mm/m)	–	5	5	5	5	5	–	–
Stainless	Max Traction Load (N)	350	590	940	1590	–	–	–	–
	Breaking Strength (N)	1415	2360	3775	6370	–	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	–	–	–	–

Average values

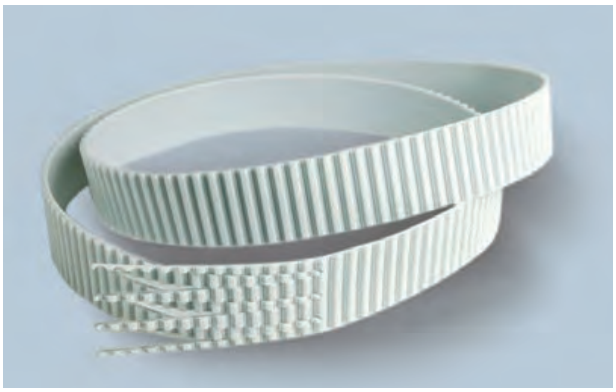
FLEXION RESISTANCE

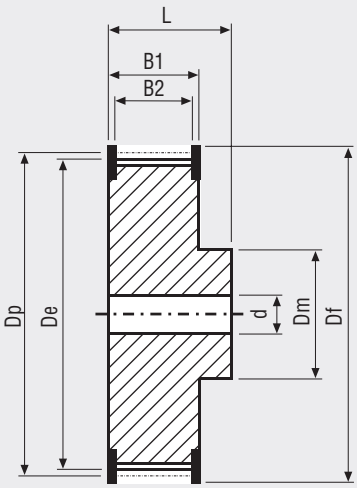
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	15	15	60	15	25
Kevlar cords	15	25	60	15	25
High Power cords	25	25	60	25	40
High Flexibility cords	12	13	40	12	25
High Power Flexible cords	20	24	40	20	40
Stainless steel cords	15	18	65	15	60

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
15	23,87	22,64	28	44,56	43,33
16	25,46	24,24	30	47,75	46,52
18	28,65	27,42	32	50,93	49,70
19	30,24	29,01	36	57,30	56,07
20	31,83	30,60	40	63,66	62,43
22	35,01	33,79	42	66,85	65,62
24	38,20	36,97	44	70,03	68,80
25	39,79	38,56	48	76,39	75,17
26	41,38	40,15	60	95,49	94,27
27	42,97	41,74			

MEGALINEAR AT10 OPEN-END

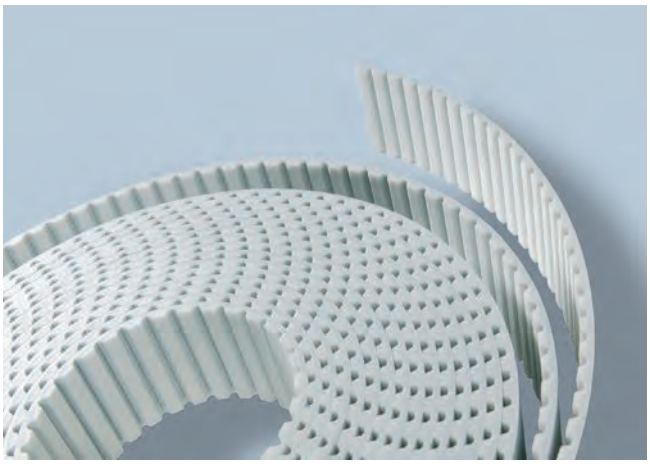
BELT CHARACTERISTICS

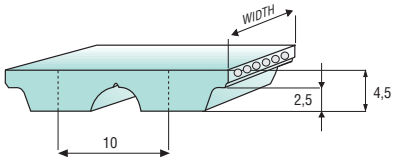
STANDARD WIDTHS (mm)	16	25	32	50	75	100	150
Weight (gr/m)	90	160	185	290	435	580	890

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **4,5 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
HP+HPF cord lenght tolerance: **+0/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:

Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats

Different back coating materials see page 118
TOOTH PROFILE ACCORDING ISO 17396





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**83**	**80**	**80**	**80**	**78**	**77**	**73**	**69**	**67**	**65**	**58**	**55**	**48**	**44**	**38**	**33**	**30**	**22**

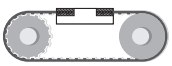
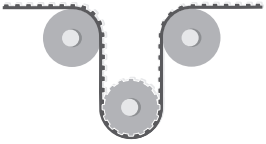
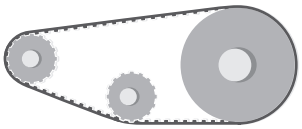
Minimum suggested number of teeth in clamp for linear movement: 7 - HP/HPF cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

	Belt width (mm)	16	25	32	50	75	100	150
Steel	Max Traction Load (N)	2270	4000	5160	8590	13800	18600	30600
	Breaking Strength (N)	9100	16100	20200	34300	52500	70700	105000
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	2945	5045	6730	10935	17715	23915	39425
	Breaking Strength (N)	11780	20195	26925	43755	67315	90875	138000
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	3460	5190	6920	11245	18210	24580	40530
	Breaking Strength (N)	13840	20760	27680	44980	69200	93420	141860
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
HF	Max Traction Load (N)	2385	4240	5300	9010	14505	19525	31495
	Breaking Strength (N)	9540	16960	21200	36040	55120	74200	110240
	Elongation at MTL (mm/m)	5	5	5 b	5	5	5	5
HPF	Max Traction Load (N)	3850	5775	7700	12510	20260	27355	45100
	Breaking Strength (N)	15400	23100	30800	50050	77000	103950	157850
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
Stainless	Max Traction Load (N)	1785	3175	3970	6745	–	–	–
	Breaking Strength (N)	7145	12700	15880	26995	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	–	–	–

Average values

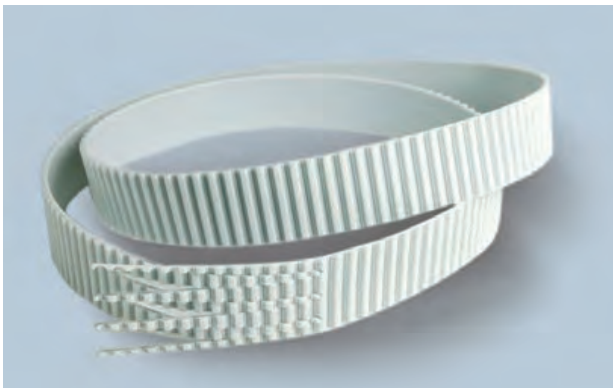
FLEXION RESISTANCE

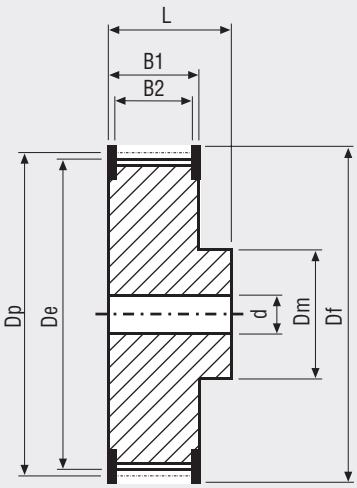
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	15	20	120	15	50
Kevlar cords	15	20	120	15	50
High Power cords	25	25	150	25	80
High Flexibility cords	15	20	80	15	50
High Power Flexible cords	16	20	100	16	60
Stainless steel cords	19	25	110	19	110

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
15	47,75	45,90	27	85,94	84,10
16	50,93	49,08	28	89,13	87,28
18	57,30	55,45	30	95,49	93,65
19	60,48	58,63	32	101,86	100,01
20	63,66	61,81	36	114,59	112,74
22	70,03	68,18	40	127,32	125,48
24	76,39	74,55	44	140,06	138,21
25	79,58	77,73	48	152,79	150,94
26	82,76	80,91	60	190,99	189,14

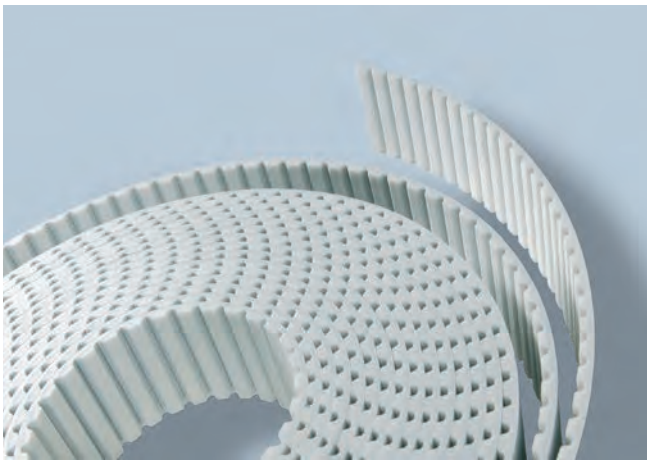
MEGALINEAR AT10 WITHOUT GAP OPEN-END

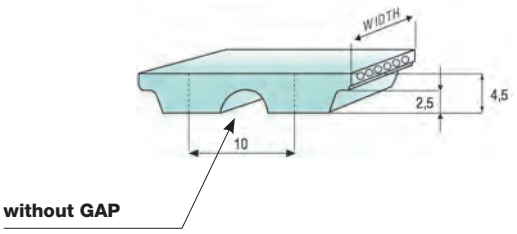
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50	75	100
Weight (gr/m)	160	205	320	480	640

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **4,5 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**

TOOTH PROFILE ACCORDING ISO 17396





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**74**	**72**	**71**	**71**	**70**	**69**	**65**	**62**	**60**	**58**	**53**	**50**	**44**	**40**	**35**	**30**	**27**	**20**

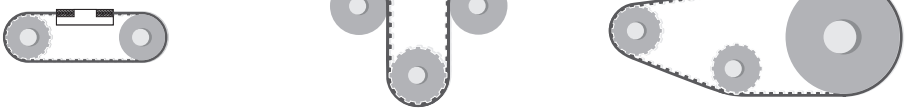
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25	32	50	75	100
Steel	Max Traction Load (N)	3560	4510	7835	12750	17250
	Breaking Strength (N)	14250	18050	31350	48450	65550
	Elongation at MTL (mm/m)	4	4	4	4	4

Average values

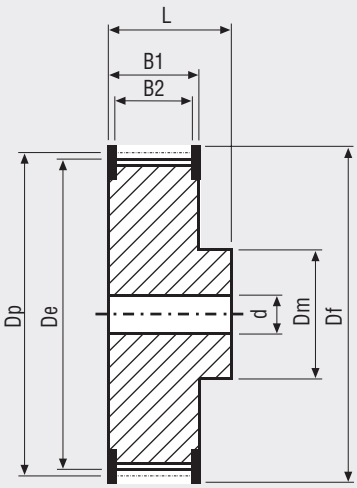
FLEXION RESISTANCE



	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	15	20	120	15	50

TYPICAL APPLICATION - CAR WASHING MACHINE

PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
15	47,75	45,90	27	85,94	84,10
16	50,93	49,08	28	89,13	87,28
18	57,30	55,45	30	95,49	93,65
19	60,48	58,63	32	101,86	100,01
20	63,66	61,81	36	114,59	112,74
22	70,03	68,18	40	127,32	125,48
24	76,39	74,55	44	140,06	138,21
25	79,58	77,73	48	152,79	150,94
26	82,76	80,91	60	190,99	189,14

MEGALINEAR AT20 OPEN-END

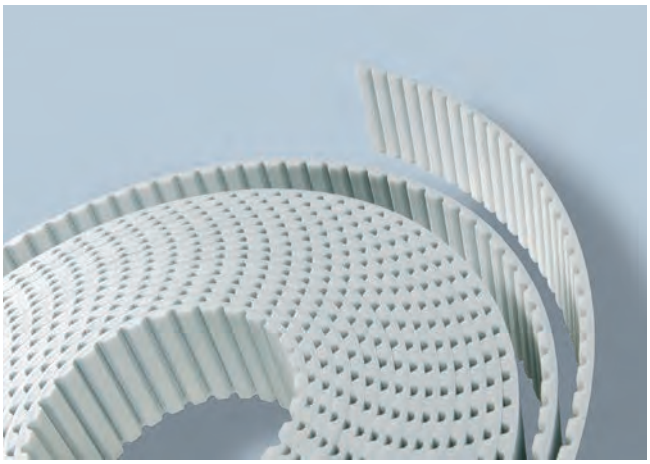
BELT CHARACTERISTICS

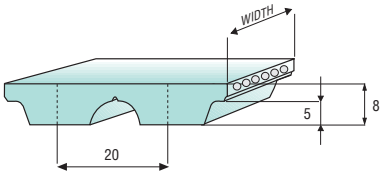
STANDARD WIDTHS (mm)	25	32	50	75	100	150	200
Weight (gr/m)	225	310	480	720	960	1425	1935

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard thickness: **8 +/– 0,45 mm**
Standard length tolerance: **+/– 0,8 mm/m**
HP+HPF cord lenght tolerance: **+0/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:

Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats

Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 17396

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**147**	**144**	**142**	**139**	**137**	**135**	**126**	**119**	**112**	**107**	**97**	**88**	**76**	**67**	**58**	**43**	**35**

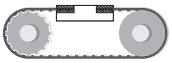
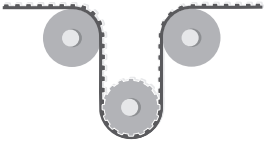
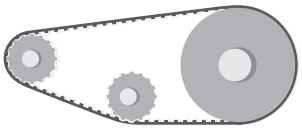
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25	32	50	75	100	150	200
Steel	Max Traction Load (N)	5190	6920	11245	18210	24580	40530	53380
	Breaking Strength (N)	20760	27680	44980	69200	93420	141860	186840
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	5045	6730	10935	17715	23915	39425	51930
	Breaking Strength (N)	20195	26925	43755	67315	90875	138000	181755
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	-	10400	16000	25260	34525	56685	74970
	Breaking Strength (N)	-	41600	64000	96000	131200	198400	262400
	Elongation at MTL (mm/m)	-	4	4	4	4	4	4
HF	Max Traction Load (N)	5775	7700	12510	20260	27355	45100	59400
	Breaking Strength (N)	23100	30800	50050	77000	103950	157850	207900
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5

Average values

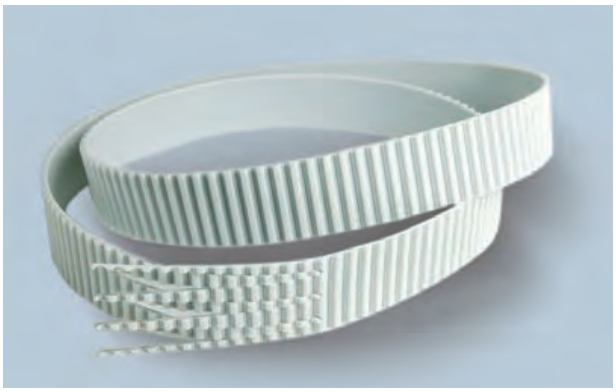
FLEXION RESISTANCE

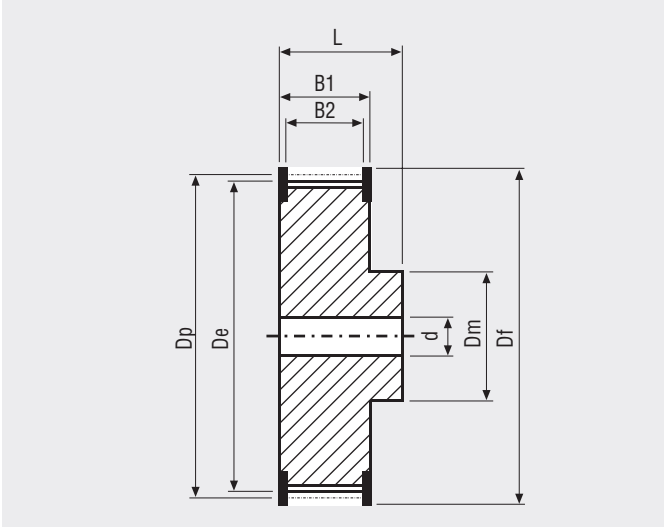
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	18	25	180	18	120
Kevlar cords	18	25	180	18	120
High Power cords	25	25	250	25	160
High Flexibility cords	18	25	150	18	120

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De
18	114,59	111,73
20	127,32	124,47
22	140,06	137,20
24	152,79	149,93
25	159,15	156,30
30	190,99	188,13

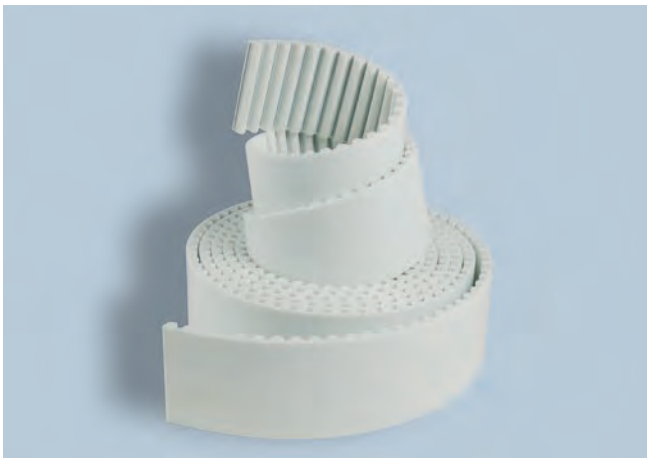
N° Teeth	Dp	De
32	203,72	200,86
36	229,18	226,33
40	254,65	251,80
48	305,58	302,73
60	381,97	379,12

MEGALINEAR MTD3 OPEN-END

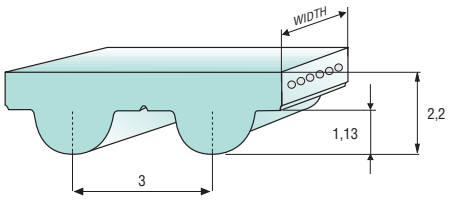
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	20	25	50
Weight (gr/m)	20	45	60	115

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,3 mm**
Standard thickness: **2,2 +/– 0,15 mm**
Standard length tolerance: **+/– 0,5 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
Different back coating materials see page 118



TOOTH PROFILE ACCORDING ISO 13050



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**23**	**23**	**22**	**22**	**22**	**22**	**21**	**20**	**20**	**19**	**18**	**17**	**16**	**15**	**13**	**12**	**11**	**9**

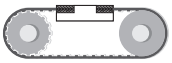
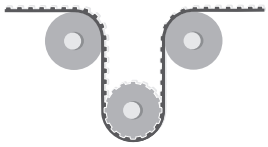
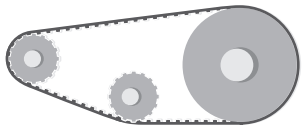
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	20	25	50
Steel	Max Traction Load (N)	410	820	1065	2170
	Breaking Strength (N)	1640	3280	4260	8690
	Elongation at MTL (mm/m)	4	4	4	4

Average values

FLEXION RESISTANCE

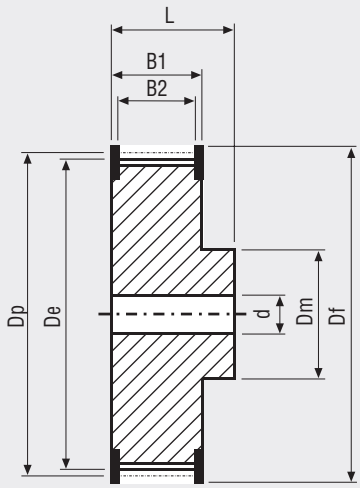




	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	20	20	30	20	30

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



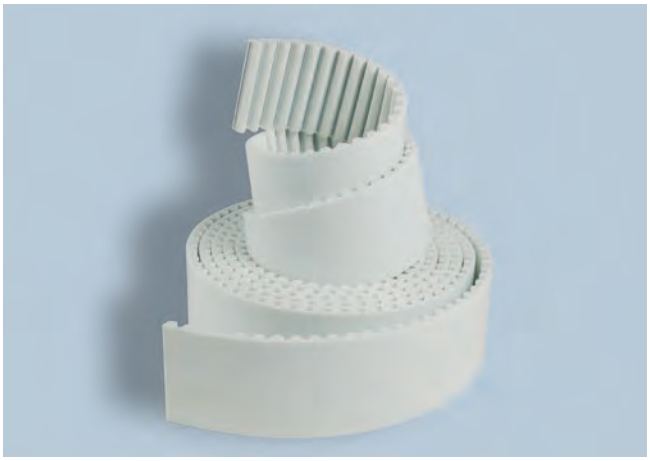
N° Teeth	Dp	De	N° Teeth	Dp	De
20	19,10	18,34	32	30,56	29,80
21	20,05	19,29	36	34,38	33,62
22	21,01	20,25	40	38,20	37,44
24	22,92	22,16	44	42,02	41,25
26	24,83	24,07	48	45,84	45,07
28	26,74	25,98	60	57,30	56,53
30	28,65	27,89	72	68,75	67,99

MEGALINEAR MTD5 OPEN-END

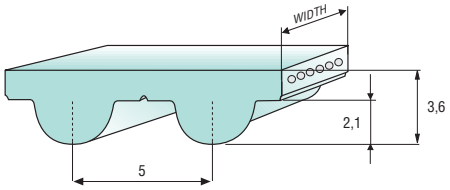
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	50
Weight (gr/m)	35	50	80	165

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **3,6 +/– 0,2 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Cleats
Different back coating materials see page 118



TOOTH PROFILE ACCORDING ISO 13050



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**34**	**34**	**33**	**33**	**33**	**32**	**31**	**30**	**29**	**28**	**26**	**25**	**23**	**21**	**19**	**17**	**16**	**13**

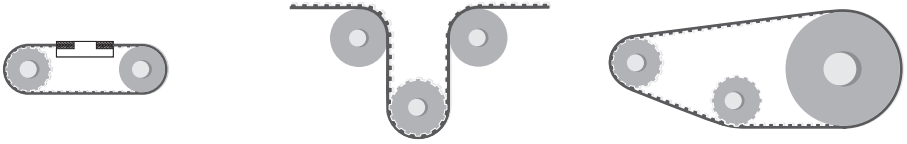
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	15	25	50
Steel	Max Traction Load (N)	670	1005	1805	3750
	Breaking Strength (N)	2680	4020	7235	15005
	Elongation at MTL (mm/m)	4	4	4	4
Kevlar	Max Traction Load (N)	820	1235	2225	4615
	Breaking Strength (N)	3295	4945	8900	18465
	Elongation at MTL (mm/m)	8	8	8	8
Stainless	Max Traction Load (N)	590	885	1590	–
	Breaking Strength (N)	2360	3540	6370	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	–

Average values

FLEXION RESISTANCE

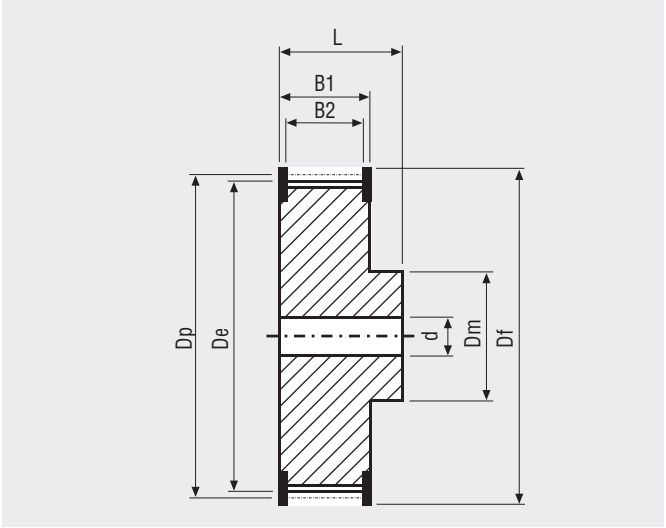


	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	16	16	50	16	25
Kevlar cords	16	16	50	16	25
Stainless steel cords	18	20	65	18	65

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



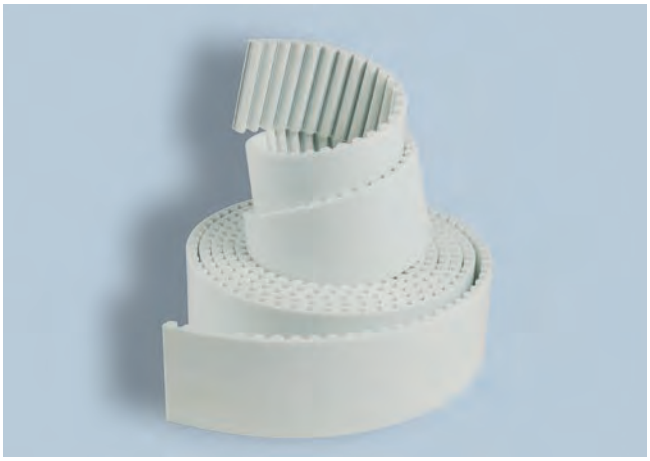
N° Teeth	Dp	De	N° Teeth	Dp	De
16	25,46	24,32	30	47,75	46,60
18	28,65	27,50	32	50,93	49,79
20	31,83	30,69	36	57,30	56,15
21	33,42	32,28	40	63,66	62,52
22	35,01	33,87	44	70,03	68,89
24	38,20	37,05	48	76,39	75,25
26	41,38	40,24	60	95,49	94,35
28	44,56	43,42	72	114,59	113,45

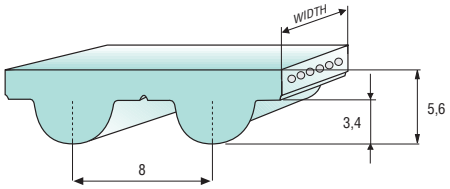
MEGALINEAR MTD8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	20	30	50	85	100
Weight (gr/m)	65	85	120	185	325	530	650

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **5,6 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**67**	**66**	**65**	**64**	**63**	**63**	**59**	**57**	**54**	**52**	**48**	**45**	**40**	**37**	**31**	**28**	**24**	**18**

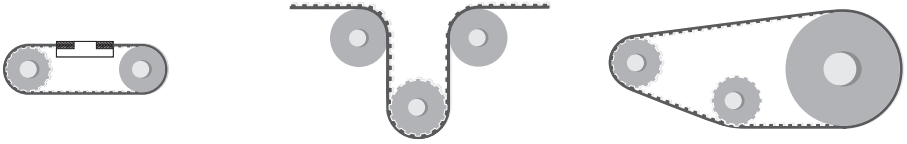
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	15	20	30	50	85	100
HP = Standard	Max Traction Load (N)	1425	2135	3085	4750	8075	14750	17500
	Breaking Strength (N)	5700	8550	12350	19000	32300	56050	66500
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	785	1175	1570	2615	4450	8130	9645
	Breaking Strength (N)	3140	4710	6285	10475	17805	30900	36665
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HF	Max Traction Load (N)	840	1365	1890	2940	5040	9170	10830
	Breaking Strength (N)	3360	5460	7560	11760	20160	34860	41160
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
Stainless	Max Traction Load (N)	1190	1785	2580	3970	6745	–	–
	Breaking Strength (N)	4765	7145	10320	15880	26995	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	–	–

Average values

FLEXION RESISTANCE

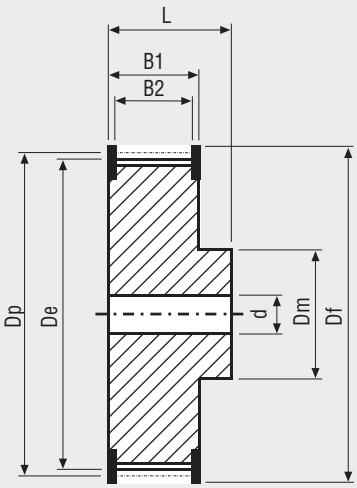


	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
HP = Standard	20	22	100	20	50
Kevlar cords	20	22	100	20	50
High Flexibility cords	20	20	80	20	40
Stainless steel cords	24	28	110	24	80

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



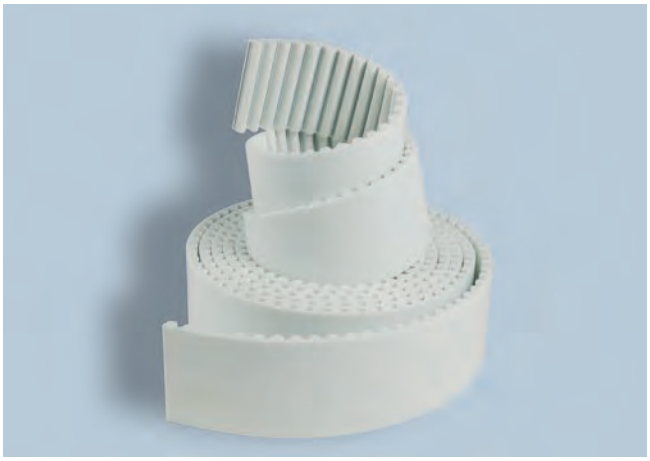
N° Teeth	Dp	De	N° Teeth	Dp	De
20	50,95	49,58	44	112,05	110,67
22	56,02	54,65	48	122,23	120,86
24	61,12	59,75	56	142,60	141,23
26	66,21	64,84	64	162,97	161,60
28	71,30	70,08	72	183,35	181,97
30	76,39	75,13	80	203,72	202,35
32	81,49	80,16	90	229,18	227,81
34	86,58	85,22	112	285,21	283,83
36	91,67	90,30	144	366,69	365,32
38	96,77	95,39	168	427,81	426,44
40	101,86	100,49	192	488,92	487,55

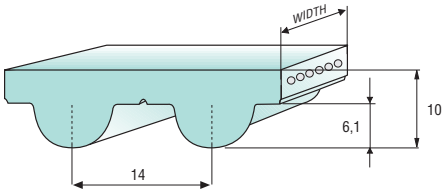
MEGALINEAR MTD14 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	40	55	85	100	115
Weight (gr/m)	260	400	555	850	1000	1150

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard thickness: **10 +/– 0,45 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**115**	**113**	**111**	**109**	**108**	**106**	**99**	**93**	**88**	**84**	**76**	**69**	**60**	**52**	**46**	**34**	**28**

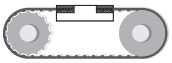
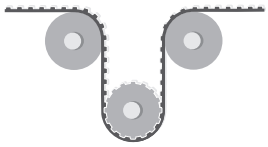
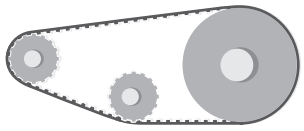
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25	40	55	85	100	115
Steel	Max Traction Load (N)	5190	8650	12745	20485	24580	30150
	Breaking Strength (N)	20760	34600	48440	77850	93420	105530
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	5045	8410	12400	19930	23915	29330
	Breaking Strength (N)	20195	33655	47120	75730	90875	102660
	Elongation at MTL (mm/m)	8	8	8	8	8	8

Average values

FLEXION RESISTANCE

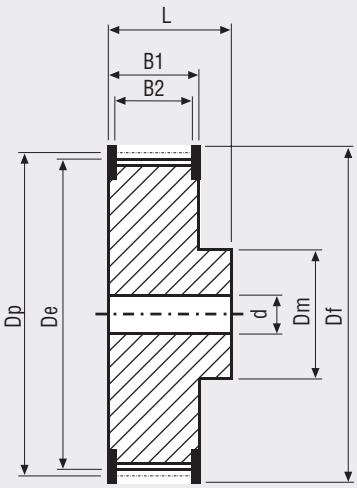




	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	26	28	180	26	120
Kevlar cords	26	28	180	26	120

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



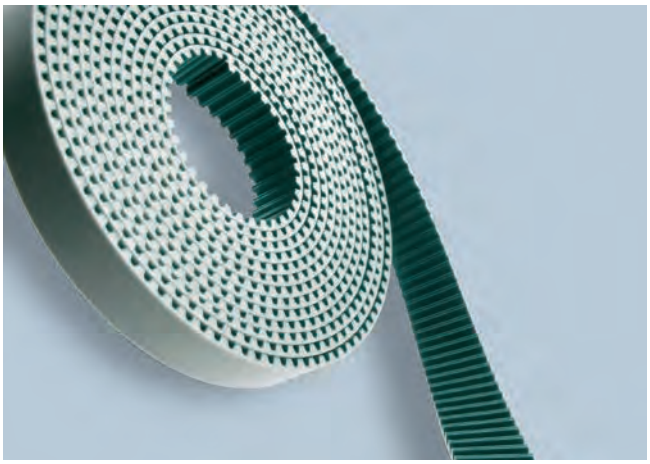
N° Teeth	Dp	De	N° Teeth	Dp	De
26	115,92	113,13	56	249,55	246,76
28	124,78	121,98	64	285,21	282,41
29	129,23	126,44	72	320,86	318,06
30	133,69	130,90	80	356,51	353,71
32	142,60	139,81	90	401,07	398,28
34	151,51	148,72	112	499,11	496,32
36	160,43	157,68	144	641,71	638,92
38	169,34	166,60	168	748,66	745,87
40	178,25	175,49	192	855,62	852,82
44	196,08	193,28	216	962,57	959,76
48	213,90	211,11			

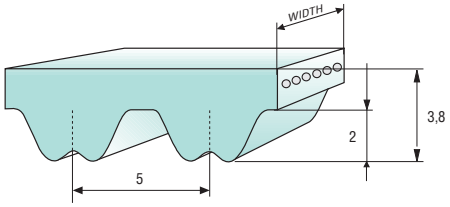
MEGALINEAR RPP5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	30	50	75
Weight (gr/m)	40	60	100	120	195	292

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **3,8 +/– 0,2 mm**
Standard length tolerance: **+/– 0,8 mm/m**
HP cord lenght tolerance: **+0/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Antistatic nylon fabric
AVAFC 60/70/85 ShA
APL
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**37**	**36**	**36**	**36**	**35**	**35**	**33**	**32**	**30**	**30**	**27**	**26**	**24**	**23**	**21**	**19**	**18**	**15**

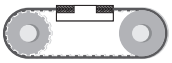
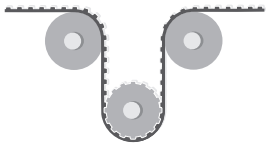
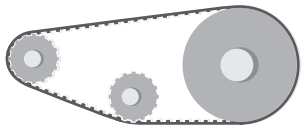
Minimum suggested number of teeth in clamp for linear movement: 7 - HP cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

	Belt width (mm)	10	15	25	30	50	75
Steel	Max Traction Load (N)	670	1005	1805	2210	3750	6065
	Breaking Strength (N)	2680	4020	7235	8840	15005	23045
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	665	995	1795	2190	3720	–
	Breaking Strength (N)	2660	3990	7180	8775	14895	–
	Elongation at MTL (mm/m)	8	8	8	8	8	–
Stainless	Max Traction Load (N)	590	885	1590	–	–	–
	Breaking Strength (N)	2360	3540	6370	–	–	–
	Elongation at MTL (mm/m)	3,8	3,8	3,8	–	–	–
HP	Max Traction Load (N)	840	1365	2415	2940	5040	8065
	Breaking Strength (N)	3360	5460	9660	11760	20160	30660
	Elongation at MTL (mm/m)	4	4	4	4	4	4

Average values

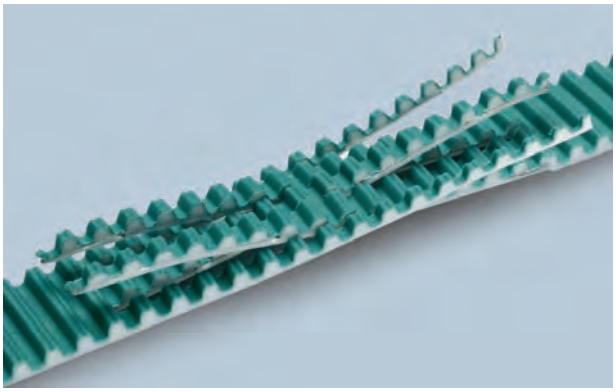
FLEXION RESISTANCE

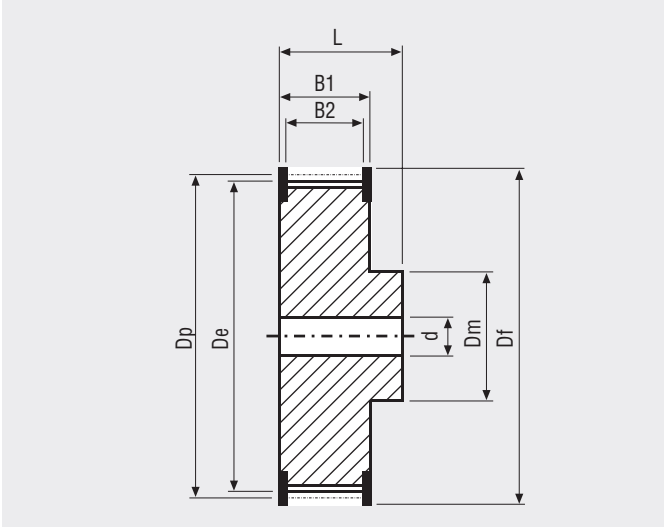
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	15	16	60	15	20
Kevlar cords	15	16	60	15	20
Stainless steel cords	18	18	65	18	65
High power cords	20	22	60	20	40

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



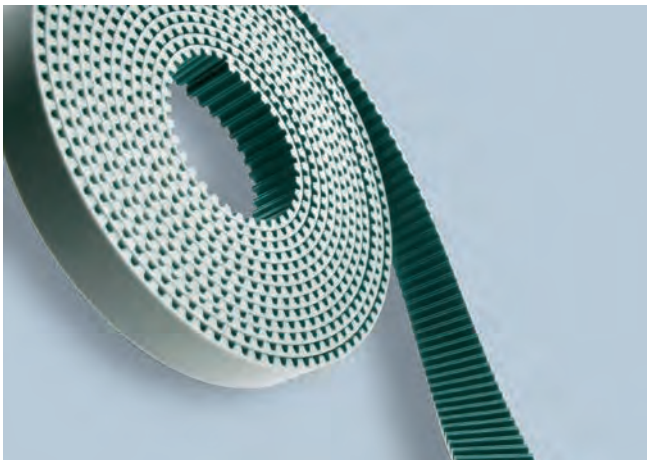
N° Teeth	Dp	De	N° Teeth	Dp	De
15	23,87	22,73	30	47,75	46,60
16	25,46	24,32	32	50,93	49,79
18	28,65	27,50	36	57,30	56,15
20	31,83	30,69	40	63,66	62,52
21	33,42	32,28	44	70,03	68,89
22	35,01	33,87	48	76,39	75,25
24	38,20	37,05	60	95,49	94,35
26	41,38	40,24	72	114,59	113,45
28	44,56	43,42			

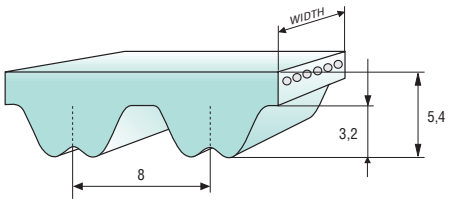
MEGALINEAR RPP8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	20	30	50	85	100
Weight (gr/m)	65	100	130	195	330	560	655

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **5,4 +/– 0,3 mm**
Standard length tolerance: **+/– 0,8 mm/m**
HP cord lenght tolerance: **+0/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Antistatic nylon fabric
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**76**	**75**	**74**	**73**	**72**	**71**	**65**	**62**	**60**	**57**	**53**	**50**	**45**	**42**	**38**	**35**	**32**	**25**

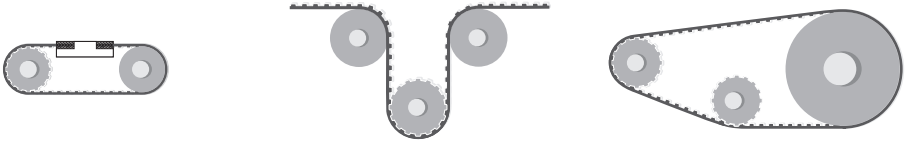
Minimum suggested number of teeth in clamp for linear movement: 7- HP cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

	Belt width (mm)	10	15	20	30	50	85	100
Steel	Max Traction Load (N)	1425	2135	3085	4750	8075	14750	17500
	Breaking Strength (N)	5700	8550	12350	19000	32300	56050	66500
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	1185	1780	2570	3955	6725	12285	14580
	Breaking Strength (N)	4745	7120	10285	15830	26910	46695	55405
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	2160	3460	4755	7785	12975	24125	27770
	Breaking Strength (N)	8650	13840	19030	31140	51900	91690	105530
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4

Average values

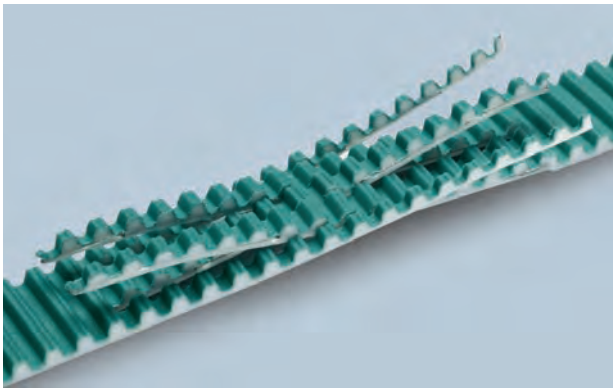
FLEXION RESISTANCE



	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	18	20	100	18	45
Kevlar cords	18	20	100	18	45
High power cords	30	34	180	30	60

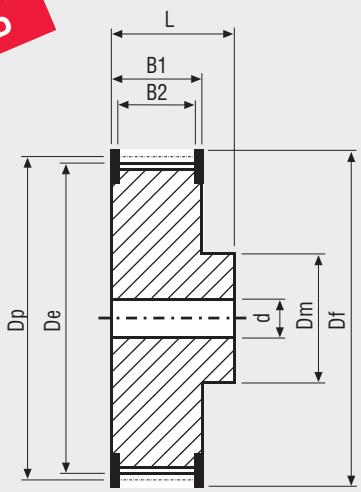
JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (HP belts can't work on RPP or MTD standard pulleys, a special profile is required. Please contact Megadyne staff for more information)

SPECIAL SHAPE IS REQUIRED



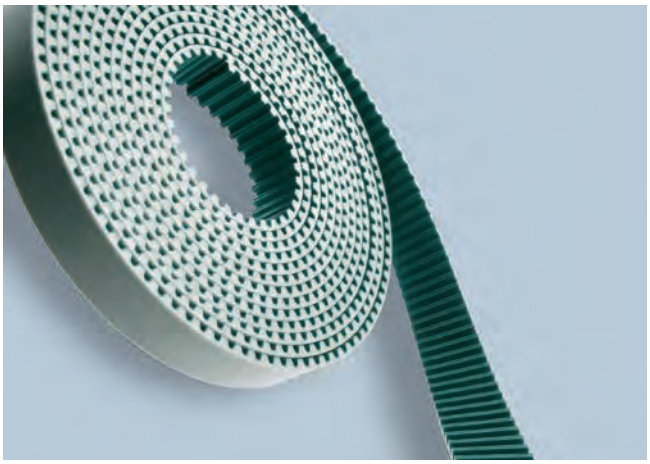
N° Teeth	Dp	De	N° Teeth	Dp	De
18	45,86	44,49	44	112,04	110,67
22	56,02	54,65	48	122,23	120,86
24	61,12	59,74	54	137,51	136,14
26	66,21	64,84	64	162,97	161,60
28	71,30	69,93	72	183,35	181,97
30	76,39	75,02	80	203,72	202,35
32	81,49	80,12	90	229,18	227,81
34	86,58	85,21	112	285,20	283,83
36	91,67	90,30	144	366,69	365,32
38	96,77	95,39	168	427,81	426,44
40	101,86	100,49	192	488,92	487,55

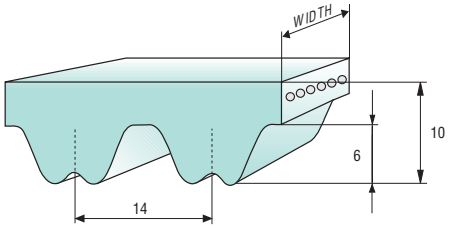
MEGALINEAR RPP14 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	505	610	1080	1465	1958

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard thickness: **10 +/– 0,4 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Antistatic nylon fabric
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**140**	**137**	**135**	**133**	**131**	**128**	**118**	**111**	**105**	**101**	**91**	**84**	**75**	**62**	**52**	**40**	**30**

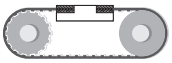
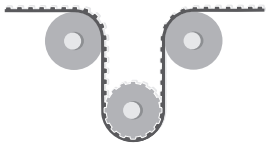
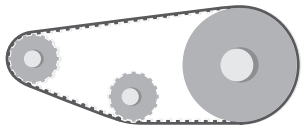
Minimum suggested number of teeth in clamp for linear movement: 8

TRACTION RESISTANCE

	Belt width (mm)	40	55	85	115	150
Steel	Max Traction Load (N)	15200	22000	35000	51025	67310
	Breaking Strength (N)	60800	83600	133000	178600	235600
	Elongation at MTL (mm/m)	4	4	4	4	4

Average values

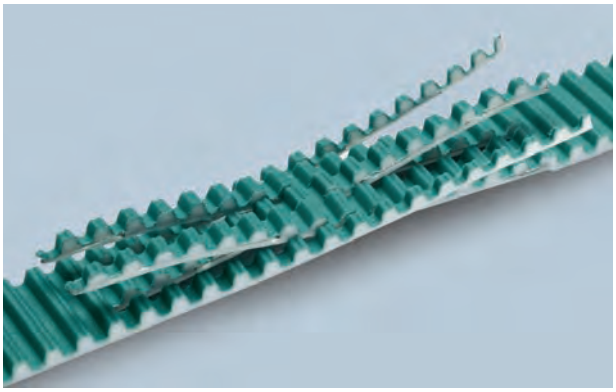
FLEXION RESISTANCE

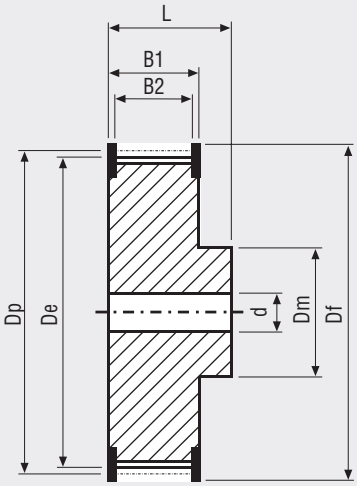
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	32	34	250	32	145

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
32	142,60	139,81	72	320,86	318,07
34	151,52	148,73	80	356,51	353,72
36	160,43	157,64	90	401,07	398,28
38	169,34	166,55	112	499,11	496,32
40	178,25	175,46	144	641,71	638,92
44	196,08	193,29	168	748,66	745,87
48	213,90	211,11	192	855,61	852,82
56	249,55	246,76	216	962,57	959,78
64	285,20	282,41			

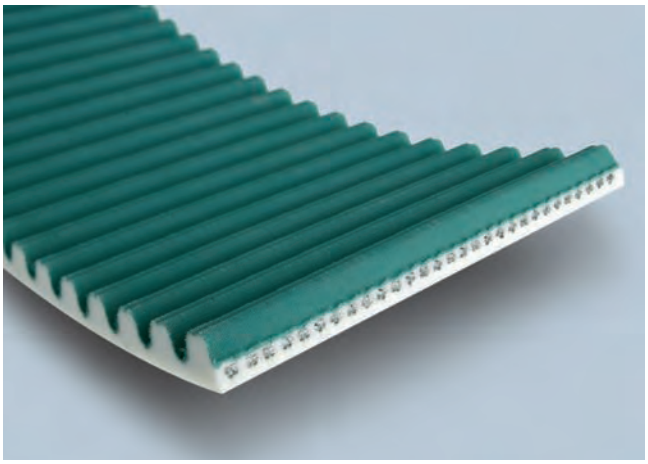
MEGALINEAR RPP14XHP OPEN-END

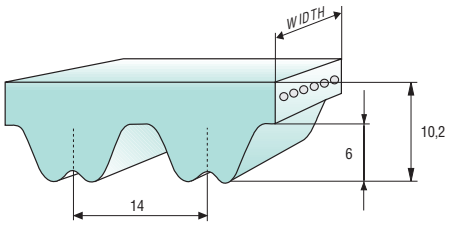
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	640	900	1380	1890	2485

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard thickness: **10,2 +/– 0,5 mm**
Standard length tolerance: **-0,4/-1,2 mm/m**
Standard roll length: **100 m**

TOOTH PROFILE ACCORDING ISO 13050





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**140**	**137**	**135**	**133**	**131**	**128**	**118**	**111**	**105**	**101**	**91**	**84**	**75**	**62**	**52**	**40**	**30**

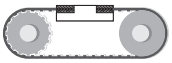
Minimum suggested number of teeth in clamp for linear movement: 12

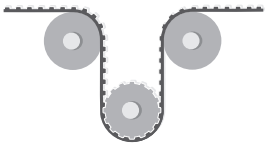
TRACTION RESISTANCE

	Belt width (mm)	40	55	85	115	150
Steel	Max Traction Load (N)	19800	30316	47365	69940	92570
	Breaking Strength (N)	79200	115200	180000	244800	324000
	Elongation at MTL (mm/m)	4	4	4	4	4

Average values

FLEXION RESISTANCE



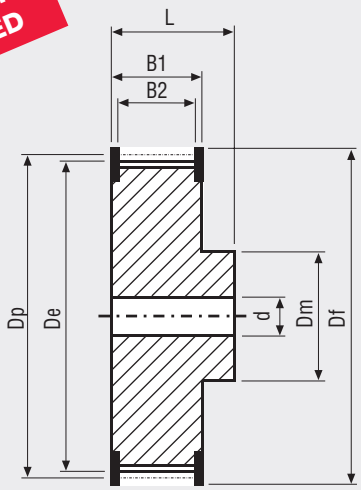


	z_{min}	z_{min}	Idler min dia (mm)
Standard steel cords	32	34	250

TYPICAL BELT APPLICATION

PULLEYS (XHP belts can't work on RPP or HTD standard pulleys, a special profile is required. PLS contact Megadyne staff for more information)

SPECIAL SHAPE IS REQUIRED



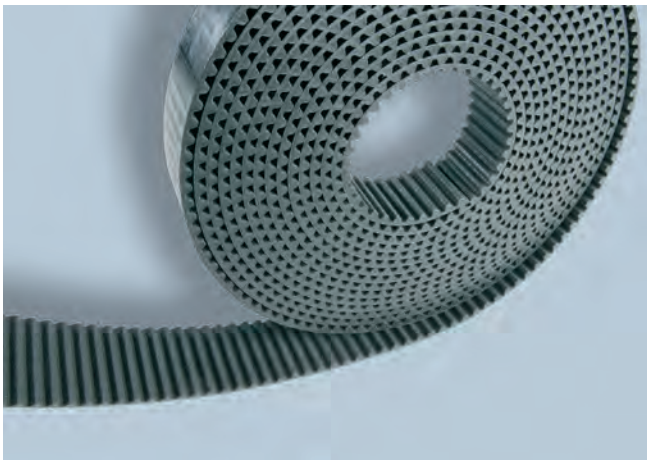
N° Teeth	Dp	De	N° Teeth	Dp	De
32	142,60	139,81	72	320,86	318,07
34	151,52	148,73	80	356,51	353,72
36	160,43	157,64	90	401,07	398,28
38	169,34	166,55	112	499,11	496,32
40	178,25	175,46	144	641,71	638,92
44	196,08	193,29	168	748,66	745,87
48	213,90	211,11	192	855,61	852,82
56	249,55	246,76	216	962,57	959,78
64	285,20	282,41			

MEGALINEAR STD5 OPEN-END

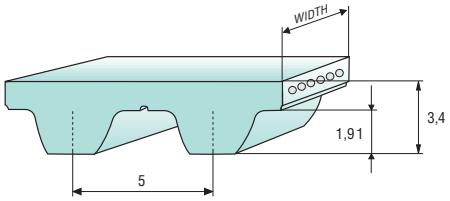
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	50	75	100	150
Weight (gr/m)	35	50	80	165	245	330	495

Standard compound: **black Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **antistatic nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **3,4 +/– 0,25 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
AVAFC 60/70/85 ShA
APL
Cleats
Different back coating materials see page 118



TOOTH PROFILE ACCORDING ISO 13050



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**34**	**34**	**33**	**32**	**31**	**30**	**29**	**27**	**25**	**24**	**22**	**20**	**17**	**15**	**12**	**10**	**8**	**3**

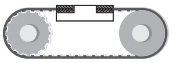
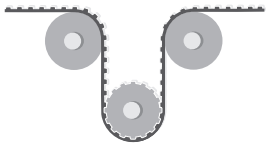
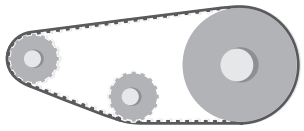
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	15	25	50	75	100	150
Steel	Max Traction Load (N)	670	1005	1805	3750	6065	6910	7810
	Breaking Strength (N)	2680	4020	7235	15005	23045	26260	27335
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4

Average values

FLEXION RESISTANCE

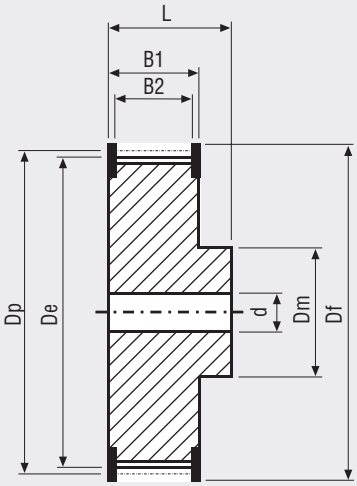




	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	12	13	60	12	20

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



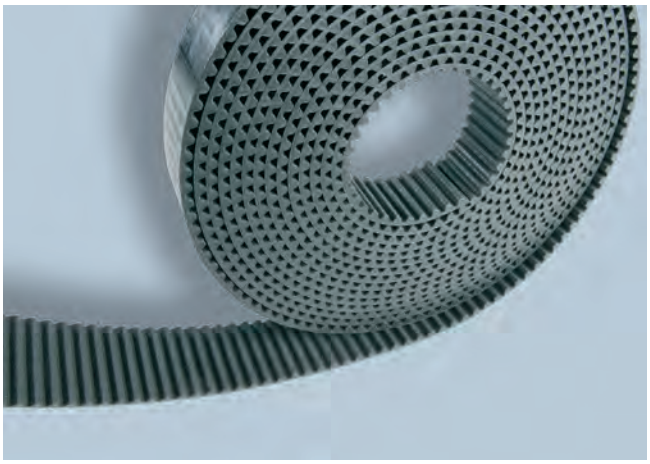
N° Teeth	Dp	De	N° Teeth	Dp	De
12	19,10	18,14	28	44,58	43,60
14	22,29	21,32	30	47,77	46,79
15	23,88	22,91	32	50,95	49,79
16	25,47	24,50	36	57,32	56,34
18	28,66	27,69	40	63,69	62,70
20	31,84	30,87	44	70,06	69,07
22	35,03	34,05	48	76,43	75,43
24	38,21	37,24	60	95,54	94,53
26	41,40	40,42	72	114,64	113,63

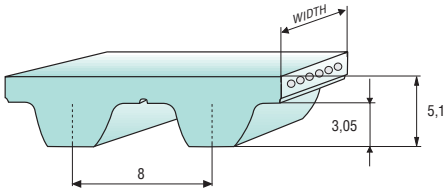
MEGALINEAR STD8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	12	15	20	30	50	85
Weight (gr/m)	65	75	85	120	185	325	530

Standard compound: **black Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **antistatic nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard thickness: **5,1 +/– 0,25 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
AVAFC 60/70/85 ShA
APL
Fishbone
Ribbed
Cleats
Different back coating materials see page 118





TOOTH PROFILE ACCORDING ISO 13050

TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**64**	**62**	**58**	**56**	**54**	**51**	**48**	**46**	**44**	**42**	**38**	**35**	**31**	**27**	**23**	**20**	**17**

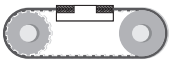
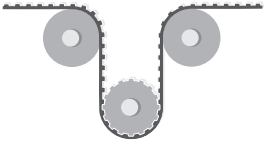
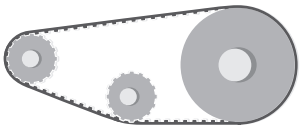
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	10	12	15	20	30	50	85
HP = Standard	Max Traction Load (N)	1425	1660	2135	3085	4750	8075	14750
	Breaking Strength (N)	5700	6650	8550	12350	19000	32300	56050
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	1185	1385	1780	2570	3955	6725	12285
	Breaking Strength (N)	4745	5540	7120	10285	15830	26910	46695
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HF	Max Traction Load (N)	840	1050	1365	1890	2940	5040	9170
	Breaking Strength (N)	3360	4200	5460	7560	11760	20160	34860
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5

Average values

FLEXION RESISTANCE

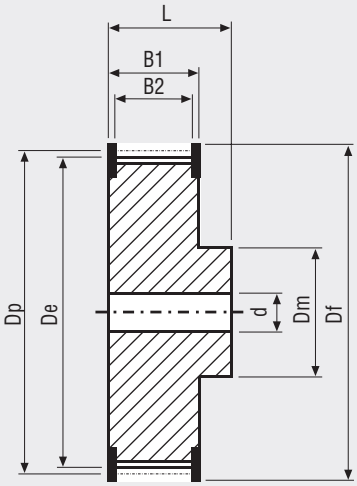




	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
HP = standard	20	24	100	20	50
Kevlar cords	20	24	100	20	50
High Flexibility cords	16	24	60	22	40

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118

PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
22	56,05	54,65	48	122,29	120,86
24	61,14	59,75	56	142,67	141,23
26	66,24	64,84	64	163,05	161,60
28	71,33	69,93	72	183,43	181,98
30	76,43	75,02	80	203,82	202,35
32	81,52	80,12	90	229,29	227,81
34	86,62	85,21	112	285,35	283,84
36	91,71	90,30	144	366,87	365,32
38	96,81	95,40	168	428,02	426,44
40	101,91	100,49	192	489,17	487,55
44	112,10	110,68			

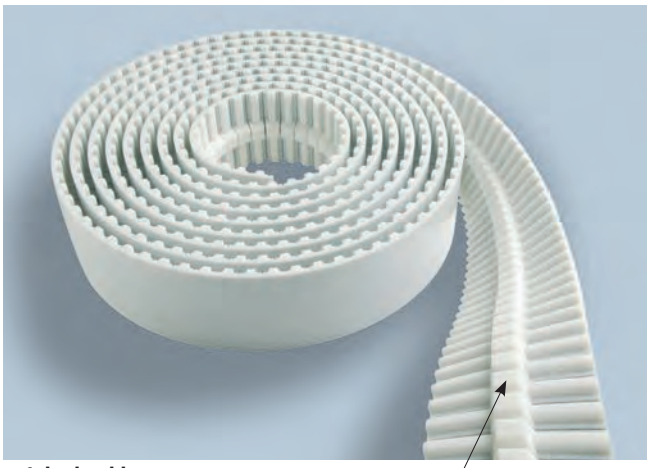
MEGALINEAR HG OPEN-END

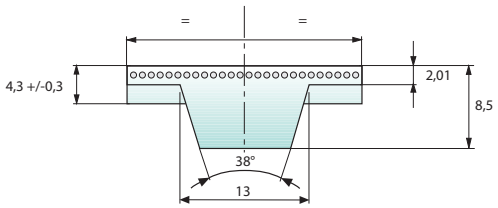
BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	150	200	300	400	600
STANDARD WIDTHS (mm)	**38,1**	**50,8**	**76,2**	**101,6**	**152,4**
Weight (gr/m)	230	285	395	500	800

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
Cleats
Different back coating materials see page 118

* Nylon fabric teeth including guide (fabric on complete width) is standard version.
Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is only on request.





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**44**	**43**	**42**	**41**	**40**	**39**	**36**	**34**	**33**	**31**	**29**	**27**	**24**	**22**	**19**	**17**	**16**	**12**

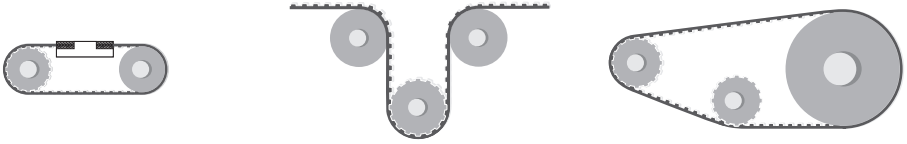
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (inch)	150	200	300	400	600
Steel	Max Traction Load (N)	3675	5040	8065	11760	11520
	Breaking Strength (N)	14700	20160	30660	41160	40320
	Elongation at MTL (mm/m)	4	4	4	4	4
Kevlar	Max Traction Load (N)	3270	4685	7165	10475	14360
	Breaking Strength (N)	13095	17805	27235	36665	50270
	Elongation at MTL (mm/m)	8	8	8	8	8

Average values

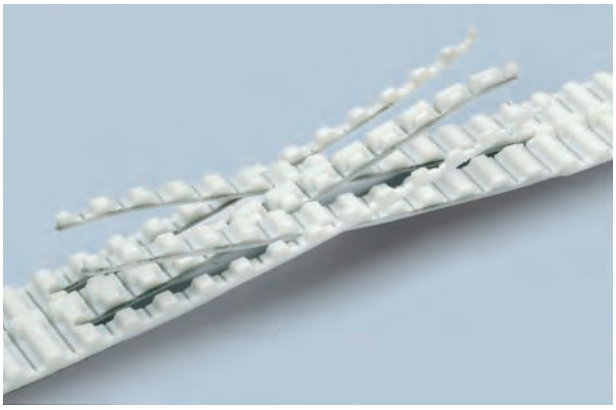
FLEXION RESISTANCE



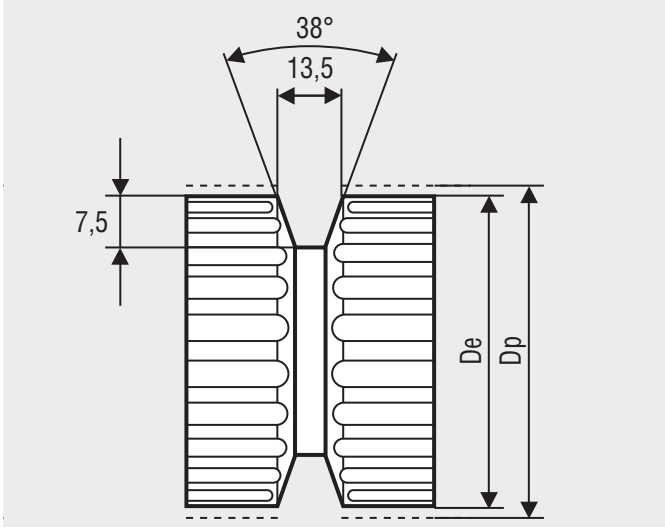
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	20	22	160	20	80
Kevlar cords	20	22	160	20	80

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
20	80,85	79,48	34	137,45	136,08
22	88,94	87,57	36	145,53	144,16
24	97,02	95,65	38	153,62	152,25
26	105,11	103,74	40	161,70	160,33
28	113,19	111,82	44	177,87	176,50
30	121,28	119,91	48	194,04	192,67
32	129,36	127,99	60	242,55	241,18

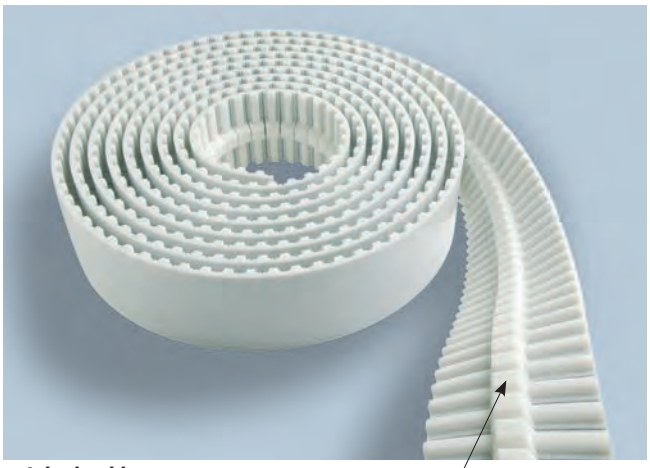
MEGALINEAR TG5 OPEN-END

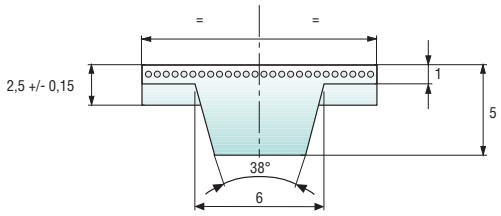
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50
Weight (gr/m)	70	85	120

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
Cleats
Different back coating materials see page 118

* Nylon fabric teeth excluding guide (2 fabric strips on teeth only).





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**24**	**23**	**23**	**22**	**22**	**22**	**20**	**19**	**19**	**18**	**17**	**16**	**15**	**14**	**12**	**11**	**11**	**9**

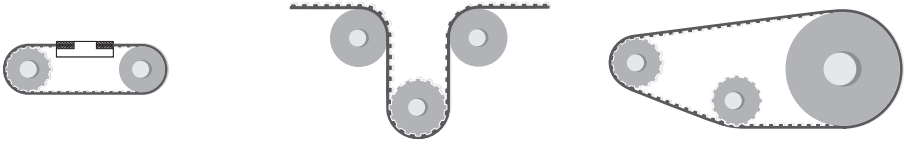
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25	32	50
Steel	Max Traction Load (N)	840	1060	1750
	Breaking Strength (N)	3375	4250	7000
	Elongation at MTL (mm/m)	4	4	4
Kevlar	Max Traction Load (N)	2225	2800	4615
	Breaking Strength (N)	8900	11210	18465
	Elongation at MTL (mm/m)	8	8	8

Average values

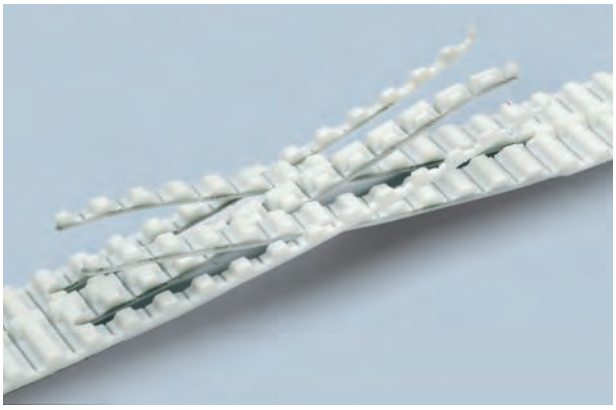
FLEXION RESISTANCE



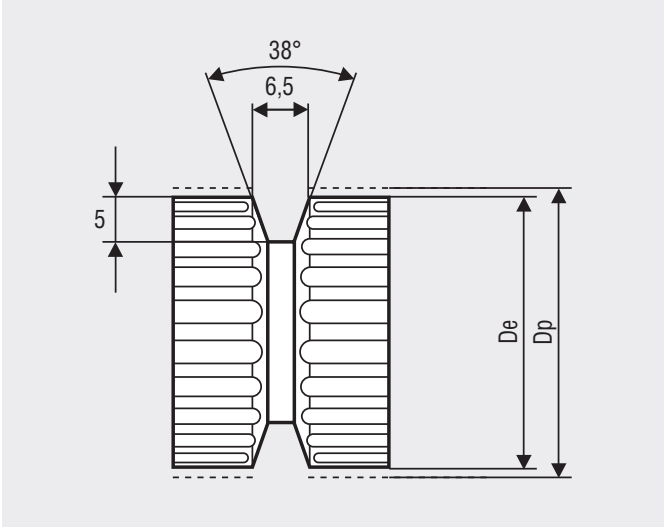
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	25	28	80	25	60
Kevlar cords	25	28	80	25	60

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



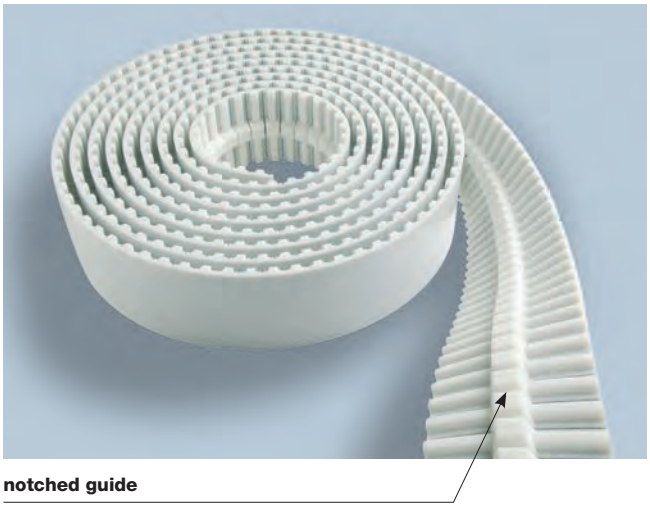
N° Teeth	Dp	De	N° Teeth	Dp	De
25	39,79	38,96	36	57,30	56,47
27	42,97	42,14	40	63,66	62,93
30	47,75	46,92	48	76,39	75,57
32	50,93	50,10	60	95,49	94,67

MEGALINEAR TG10 OPEN-END

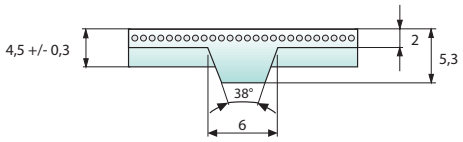
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25TG10K13	32TG10K13	50TG10K13	75TG10K13	100TG10K13	50TG10K6
Weight (gr/m)	190	250	290	390	495	240

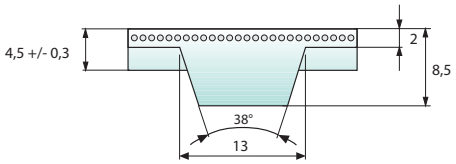
Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
Cleats
Different back coating materials see page 118
*K13 - Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.
Nylon fabric teeth including guide (fabric on complete width) is only on request.
K6 - Nylon fabric teeth including guide (fabric on complete width) is standard version.
Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is only on request.



K6



K13



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**51**	**49**	**48**	**47**	**46**	**45**	**41**	**39**	**37**	**36**	**33**	**31**	**28**	**25**	**22**	**20**	**18**	**14**

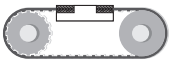
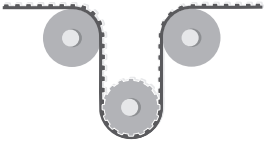
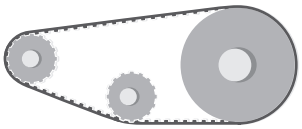
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25TG10K13	32TG10K13	50TG10K13	75TG10K13	100TG10K13	50TG10K6
Steel	Max Traction Load (N)	2415	3045	5040	8065	10830	5040
	Breaking Strength (N)	9660	12180	20160	30660	41160	20160
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	2095	2615	4450	7165	9645	4450
	Breaking Strength (N)	8380	10475	17805	27235	36665	17805
	Elongation at MTL (mm/m)	8	8	8	8	8	8
Stainless	Max Traction Load (N)	2190	2760	4570	–	–	4570
	Breaking Strength (N)	8760	11045	18285	–	–	18285
	Elongation at MTL (mm/m)	3,8	3,8	3,8	–	–	3,8

Average values

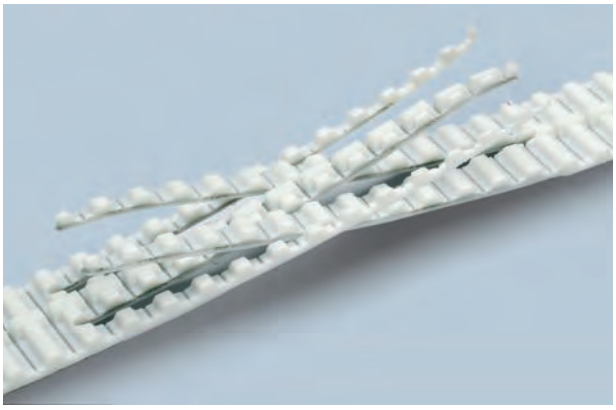
FLEXION RESISTANCE

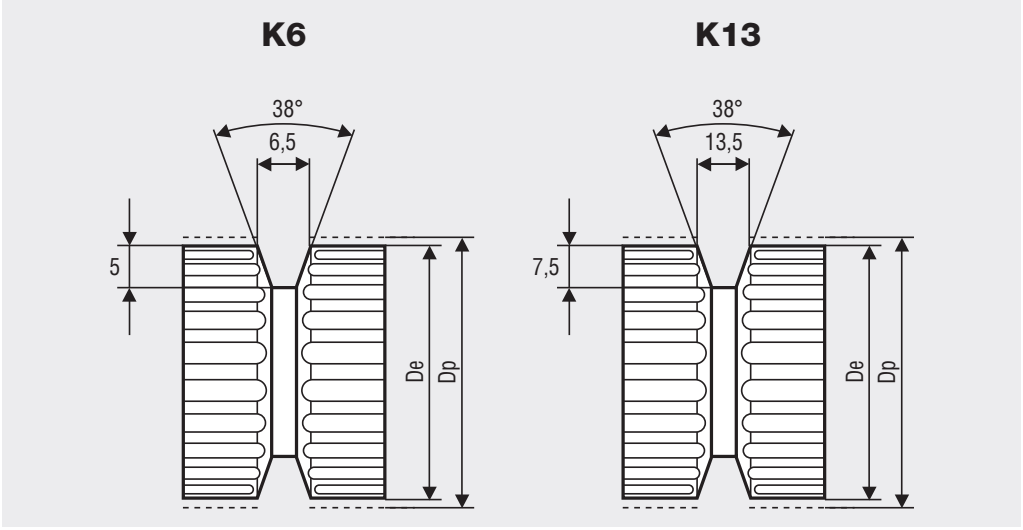
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	25	28	80	25	80
Kevlar cords	25	28	80	25	80
Stainless steel cords	31	34	90	31	90

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De
25	79,58	77,73
27	85,94	84,10
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
48	152,79	150,94
60	190,99	189,14

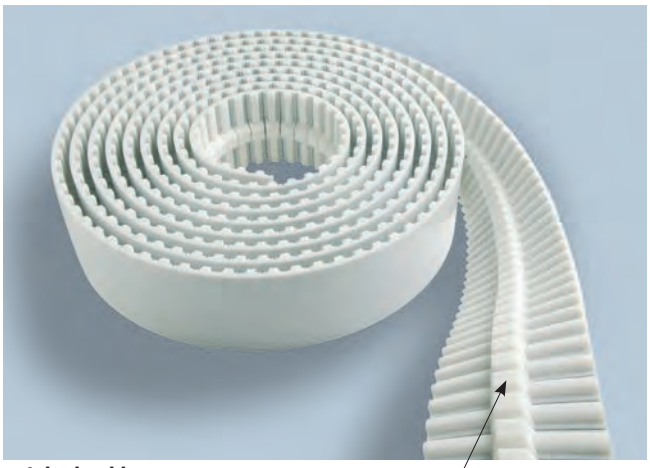
MEGALINEAR TG20 OPEN-END

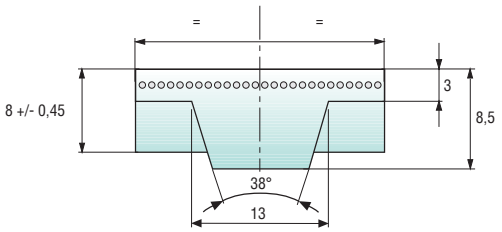
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	50	75	100
Weight (gr/m)	375	590	770

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
Cleats
Different back coating materials see page 118

* Nylon fabric teeth including guide (fabric on complete width) is standard version.
Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is only on request.





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**102**	**98**	**95**	**93**	**91**	**89**	**81**	**76**	**72**	**68**	**62**	**57**	**50**	**45**	**38**	**33**	**29**

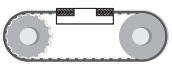
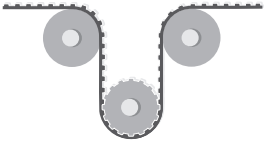
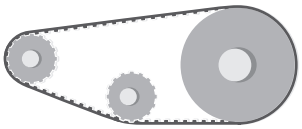
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	50	75	100
Steel	Max Traction Load (N)	8075	13000	17500
	Breaking Strength (N)	32300	49400	66500
	Elongation at MTL (mm/m)	4	4	4
Kevlar	Max Traction Load (N)	10935	17715	23915
	Breaking Strength (N)	43755	67315	90875
	Elongation at MTL (mm/m)	8	8	8

Average values

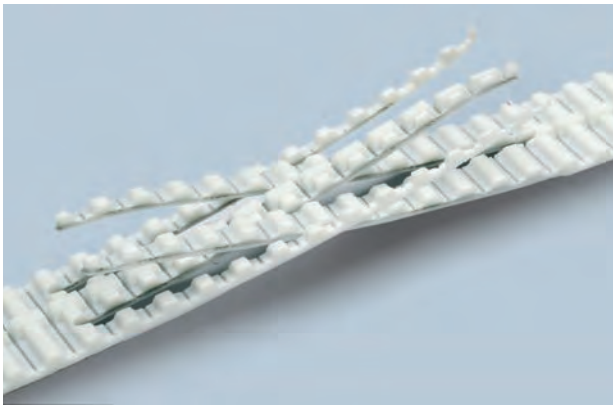
FLEXION RESISTANCE

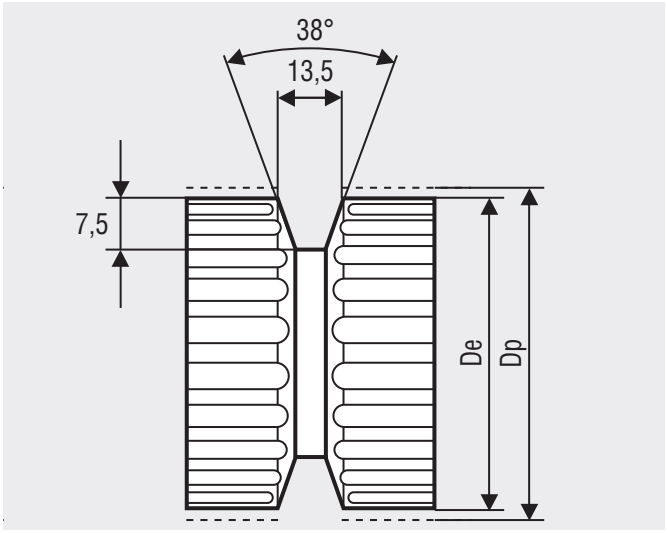
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	30	33	140	30	120
Kevlar cords	30	33	140	30	120

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
30	190,99	188,13	40	254,65	251,80
32	203,72	200,86	48	305,58	302,73
36	229,18	226,33	60	381,97	379,12

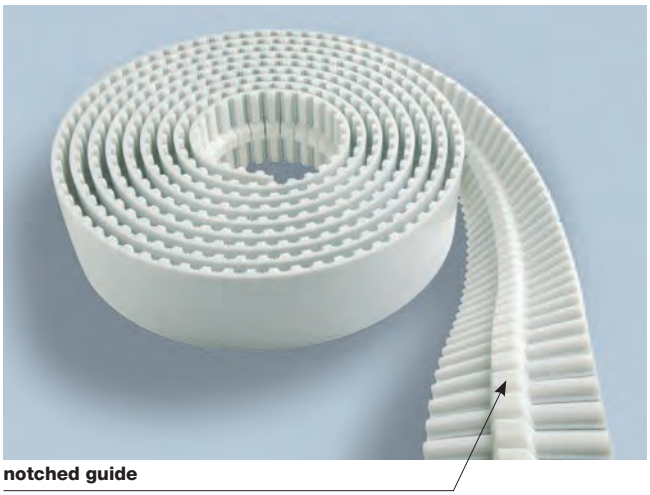
MEGALINEAR ATG5 OPEN-END

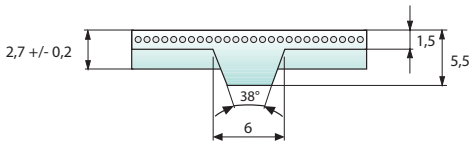
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50
Weight (gr/m)	95	120	180

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
Cleats
Different back coating materials see page 118

* Nylon fabric teeth excluding guide (2 fabric strips on teeth only).





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**35**	**35**	**35**	**34**	**34**	**34**	**32**	**31**	**30**	**29**	**27**	**26**	**24**	**22**	**19**	**18**	**16**	**13**

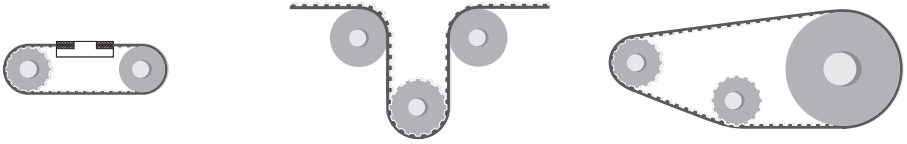
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25	32	50
Steel	Max Traction Load (N)	1805	2275	3750
	Breaking Strength (N)	7235	9110	15005
	Elongation at MTL (mm/m)	4	4	4

Average values

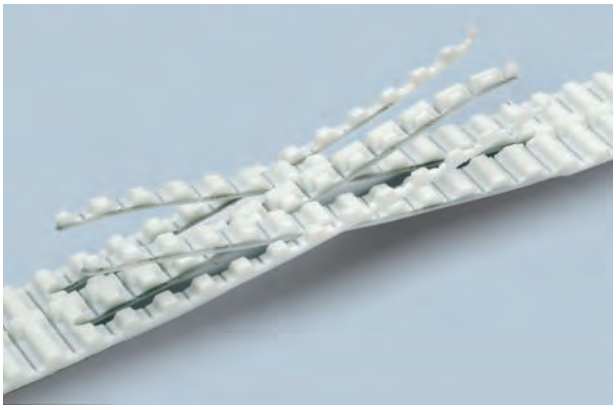
FLEXION RESISTANCE



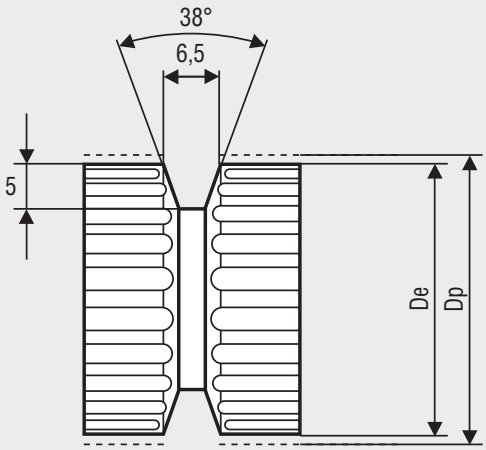
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	25	28	100	25	80

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
25	39,79	38,96	36	57,30	56,47
27	42,97	42,14	40	63,66	62,93
30	47,75	46,92	48	76,39	75,57
32	50,93	50,10	60	95,49	94,67

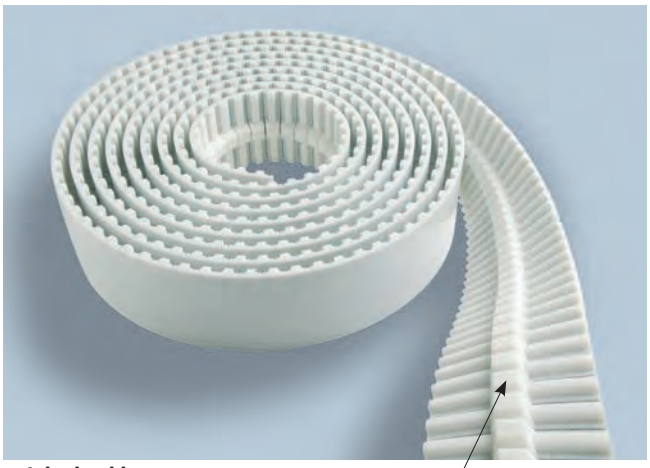
MEGALINEAR ATG10 OPEN-END

BELT CHARACTERISTICS

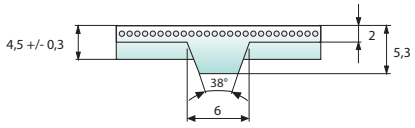
STANDARD WIDTHS (mm)	25 ATG10K13	32 ATG10K13	50 ATG10K13	75 ATG10K13	100 ATG10K13	150 ATG10K13	50 ATG10K6
Weight (gr/m)	180	230	330	465	620	930	290

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 0,5 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
Cleats

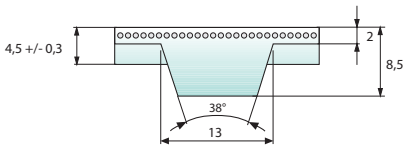
Different back coating materials see page 118
*K13 - Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.
Nylon fabric teeth including guide (fabric on complete width) is only on request.
K6 - Nylon fabric teeth including guide (fabric on complete width) is standard version.
Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is only on request.



K6



K13



TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
$F_{p\ spec}$ (N/cm)	**74**	**72**	**71**	**71**	**70**	**69**	**65**	**62**	**60**	**58**	**53**	**50**	**44**	**40**	**35**	**30**	**27**	**20**

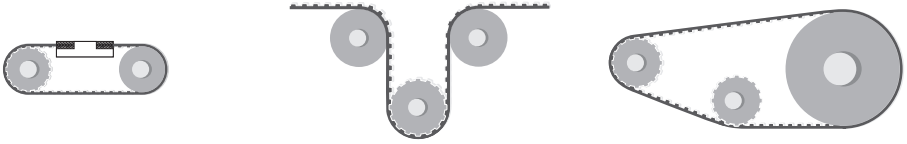
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	25 ATG10K13	32 ATG10K13	50 ATG10K13	75 ATG10K13	100 ATG10K13	150 ATG10K13	50 ATG10K6
Steel	Max Traction Load (N)	3800	4750	8075	13000	17500	28225	8075
	Breaking Strength (N)	15200	19000	32300	49400	66500	98800	32300
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	5045	6730	10935	17715	23915	39425	10935
	Breaking Strength (N)	20195	26925	43755	67315	90875	138000	43755
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	5190	6920	11245	18210	24580	40530	-
	Breaking Strength (N)	20760	27680	44980	69200	93420	141860	-
	Elongation at MTL (mm/m)	4	4	4	4	4	4	-
Stain-less	Max Traction Load (N)	3175	3970	6745	–	–	–	6745
	Breaking Strength (N)	12700	15880	26995	–	–	–	26995
	Elongation at MTL (mm/m)	3,8	3,8	3,8	–	–	–	3,8

Average values

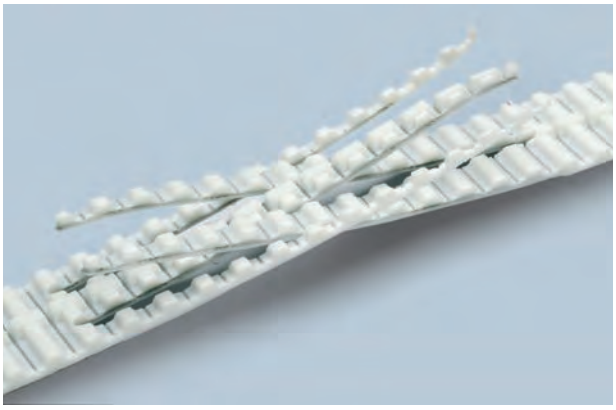
FLEXION RESISTANCE



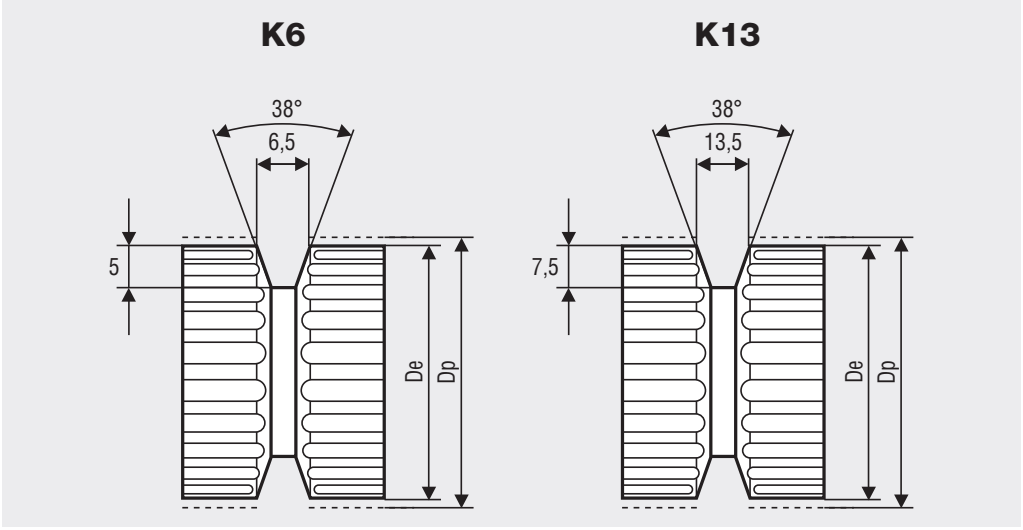
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	25	28	120	25	80
Kevlar cords	25	28	120	25	100
High Power cords	40	40	160	40	120
Stainless steel cords	32	34	130	32	130

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De
25	79,58	77,73
27	85,94	84,10
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
48	152,79	150,94
60	190,99	189,14

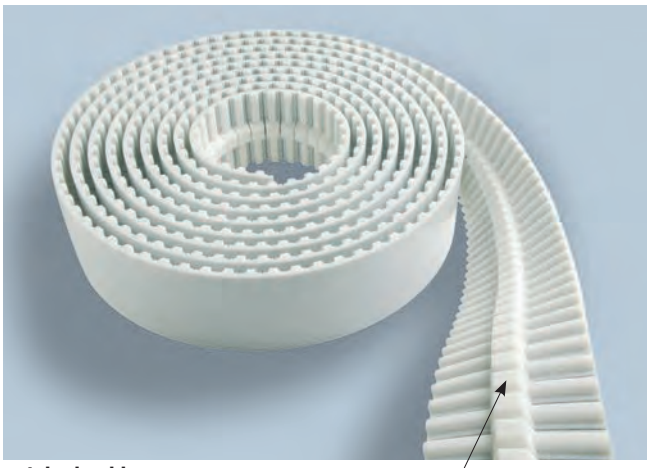
MEGALINEAR ATG20 OPEN-END

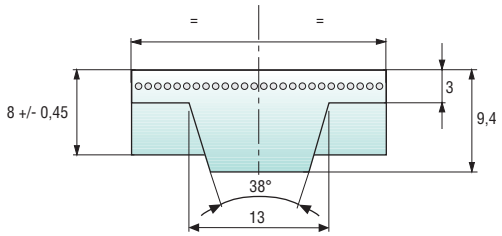
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	75	150
Weight (gr/m)	795	1500

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **+/– 1 mm**
Standard length tolerance: **+/– 0,8 mm/m**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
AVAFC 60/70/85 ShA
Cleats
Different back coating materials see page 118

* Nylon fabric teeth excluding guide (2 fabric strips on teeth only).





TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
$F_{p\ spec}$ (N/cm)	**147**	**144**	**142**	**139**	**137**	**135**	**126**	**119**	**112**	**107**	**97**	**88**	**76**	**67**	**58**	**43**	**35**

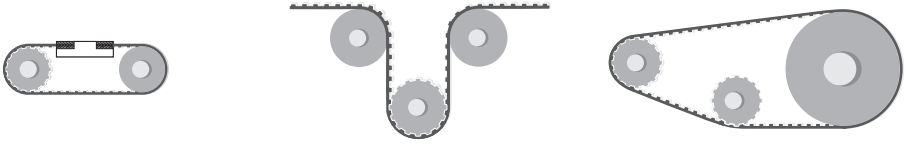
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	75	150
Steel	Max Traction Load (N)	18210	40530
	Breaking Strength (N)	69200	141860
	Elongation at MTL (mm/m)	4	4

Average values

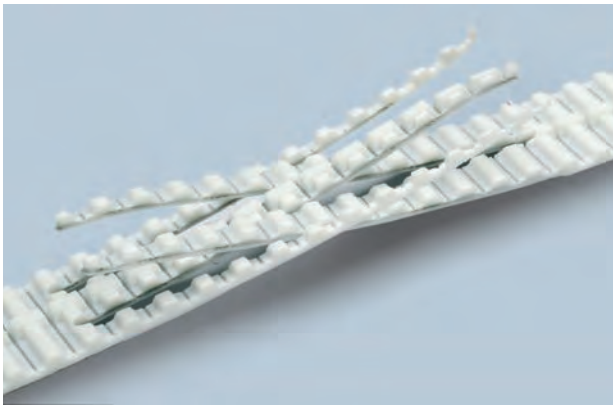
FLEXION RESISTANCE



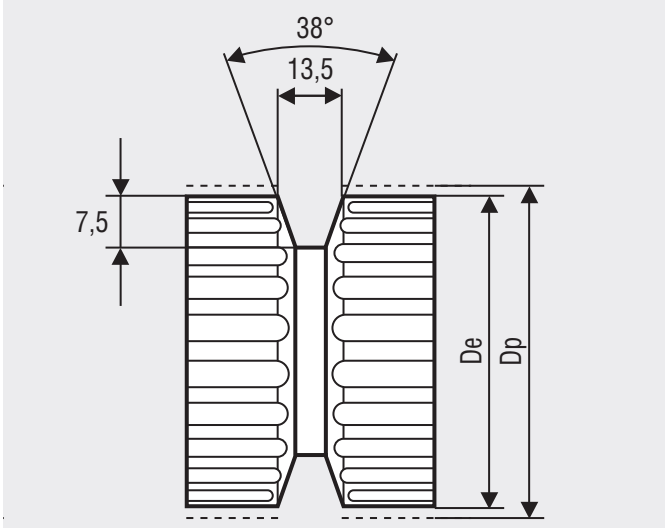
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	30	34	180	30	160

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De	N° Teeth	Dp	De
30	190,99	188,13	40	254,65	251,80
32	203,72	200,86	48	305,58	302,73
36	229,18	226,33	60	381,97	379,12

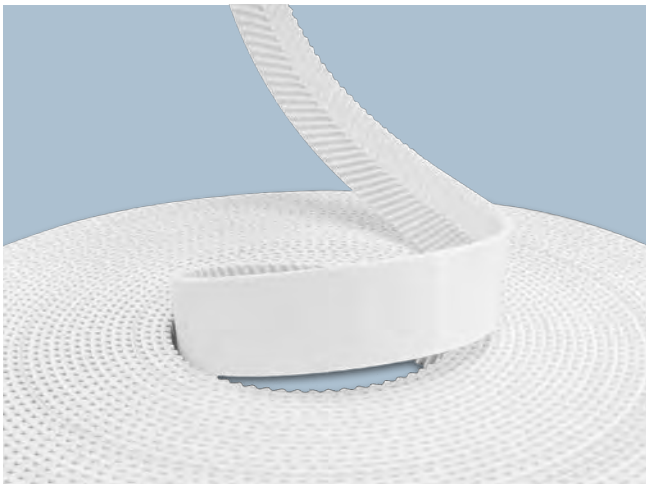
MEGALINEAR QST5 OPEN-END

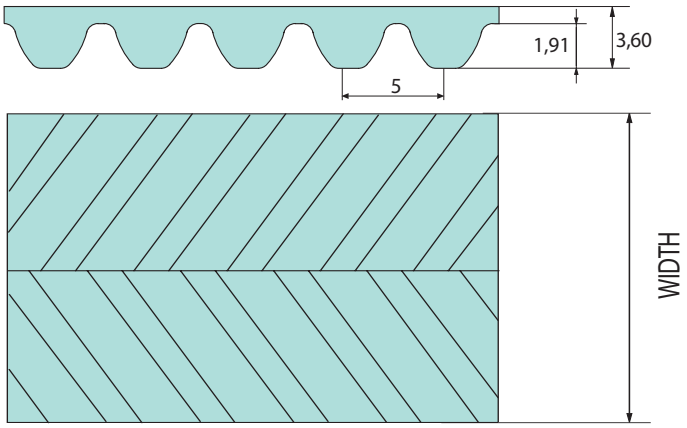
BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	12	24
Weight (gr/m)	60	120

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **-/+ 0,5 mm**
Standard length tolerance: **-/+ 0,5 mm/m**
Standard roll length: **100 m**
Standard thickness tolerance: **-/+ 0,2**

Different back coating materials see page 118
Please ask the feasibility to customer service or OEM team.





TOOTH RESISTANCE

	RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750
	$F_{p\ spec}$ (N/cm)	**38**	**37**	**37**	**36**	**36**	**35**	**34**	**33**	**32**	**31**	**30**
	RPM (1/min)	1000	1250	1500	1750	2000	2500	3000	3500	4000	5000	8000
	$F_{p\ spec}$ (N/cm)	**28**	**27**	**26**	**25**	**24**	**22**	**21**	**19**	**19**	**17**	**11**

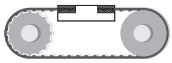
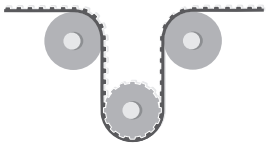
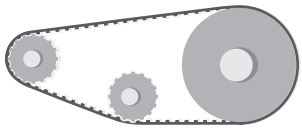
Minimum suggested number of teeth in clamp for linear movement: 7

TRACTION RESISTANCE

	Belt width (mm)	12	24
Steel	Max Traction Load (N)	1135	2497
	Breaking Strength (N)	4200	9240
	Elongation at MTL (mm/m)	4	4

Average values

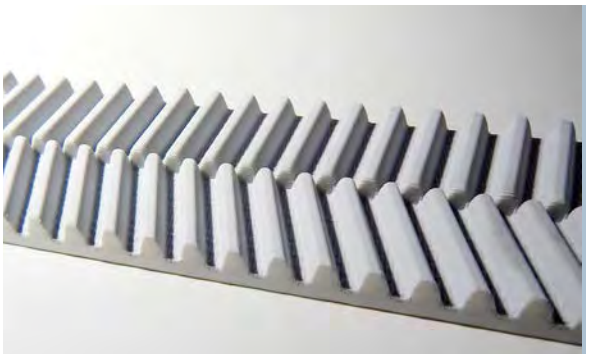
FLEXION RESISTANCE

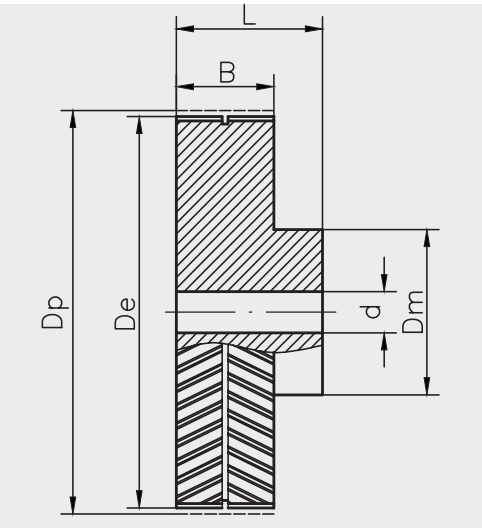
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	16	25	60	16	30

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS



N° Teeth	Dp	De	N° Teeth	Dp	De
16	25,46	24,32	30	47,75	46,60
18	28,65	27,50	32	50,93	49,79
20	31,83	30,69	36	57,30	56,15
21	33,42	32,28	40	63,66	62,52
22	35,01	33,87	44	70,03	68,89
24	38,20	37,05	48	76,39	75,25
26	41,38	40,24	60	95,49	94,35
28	44,56	43,42	72	114,59	113,45

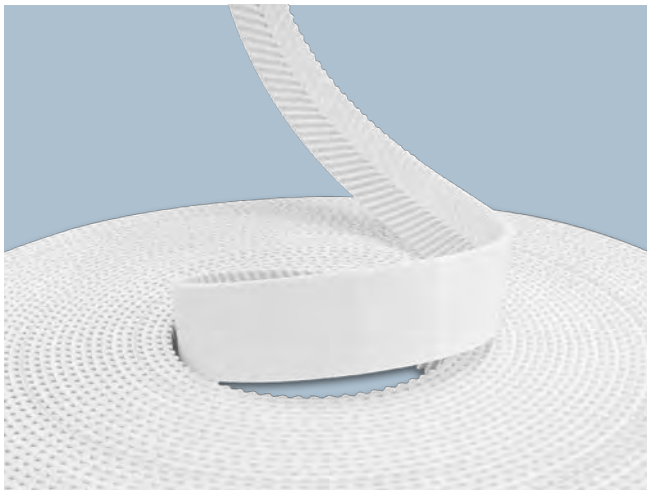
MEGALINEAR QST8 OPEN-END

BELT CHARACTERISTICS

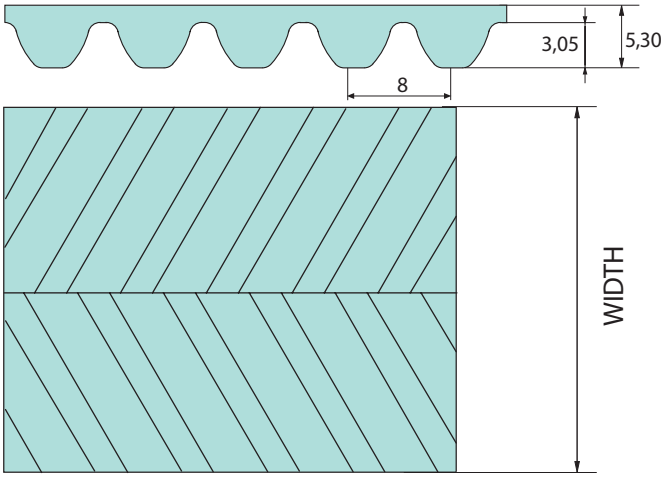
STANDARD WIDTHS (mm)	16	25	32	50
Weight (gr/m)	85	145	180	300

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **-/+ 0,5 mm**
Standard length tolerance: **-/+ 0,8 mm/m**
Standard roll length: **100 m**
Standard thickness tolerance: **-/+ 0,3**

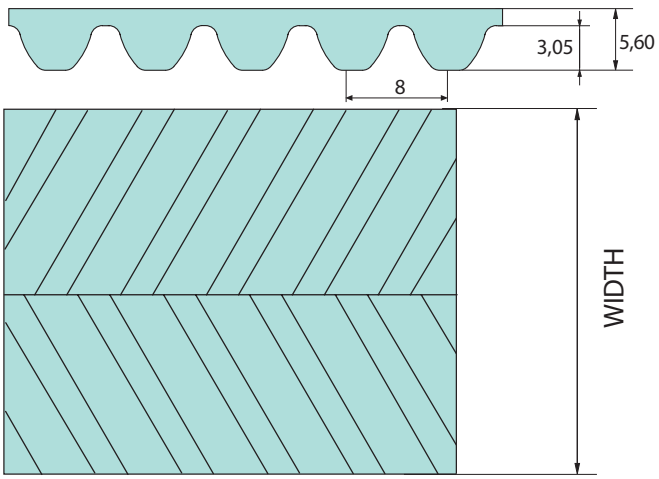
Different back coating materials see page 118
Please ask the feasibility to customer service or OEM team



Steel cords



HP



TOOTH RESISTANCE

	RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750
	$F_{p\ spec}$ (N/cm)	**85**	**83**	**82**	**81**	**80**	**79**	**75**	**71**	**68**	**66**	**61**

	RPM (1/min)	1000	1250	1500	1750	2000	2500	3000	3500	4000	5000	8000
	$F_{p\ spec}$ (N/cm)	**57**	**54**	**51**	**48**	**46**	**43**	**40**	**37**	**35**	**31**	**23**

Minimum suggested number of teeth in clamp for linear movement: 7-HP cords minimum suggested number of teeth in clamp 10

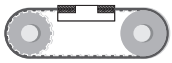
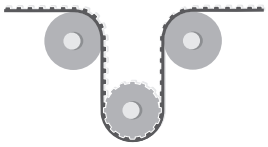
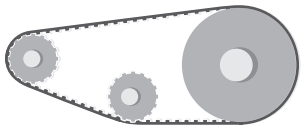
TRACTION RESISTANCE

	Belt width (mm)	16	25	32**	50**
Steel	Max Traction Load (N)	2610	4275	5460	8785
	Breaking Strength (N)	10450	17100	21850	35150
	Elongation at MTL (mm/m)	4	4	4	4
HP	Max Traction Load (N)	3740	6545	8415	14025
	Breaking Strength (N)	13840	24220	31140	51900
	Elongation at MTL (mm/m)	4	4	4	4

Average values

****HP VERSION** Under construction

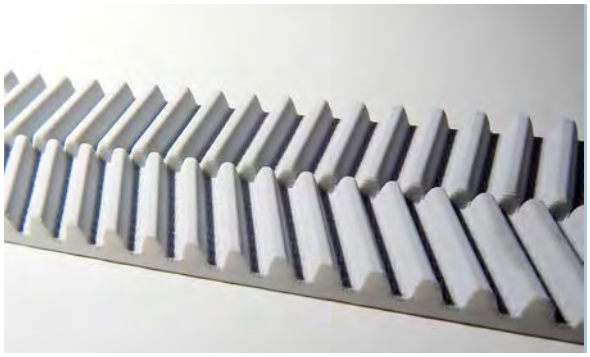
FLEXION RESISTANCE

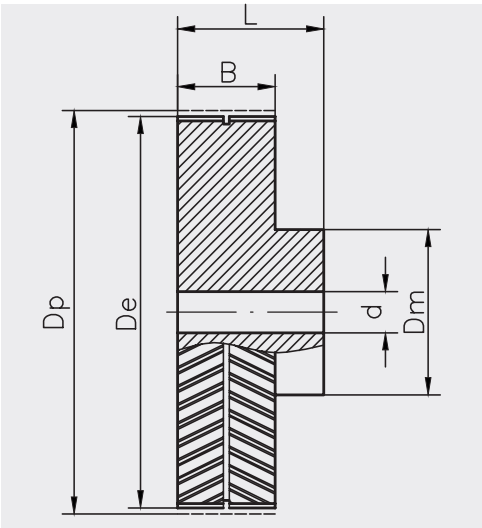
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	20	30	120	20	50
High Power cords	30	32	150	30	80

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS



N° Teeth	Dp	De
18	45,84	44,47
22	56,02	54,65
24	61,12	59,75
26	66,21	64,84
28	71,30	69,93
30	76,40	75,03
32	81,49	80,12
34	86,58	85,21

N° Teeth	Dp	De
36	91,68	90,30
38	96,77	95,40
40	101,86	100,49
44	112,05	110,68
48	122,23	120,86
52	132,42	131,05
60	152,79	151,42

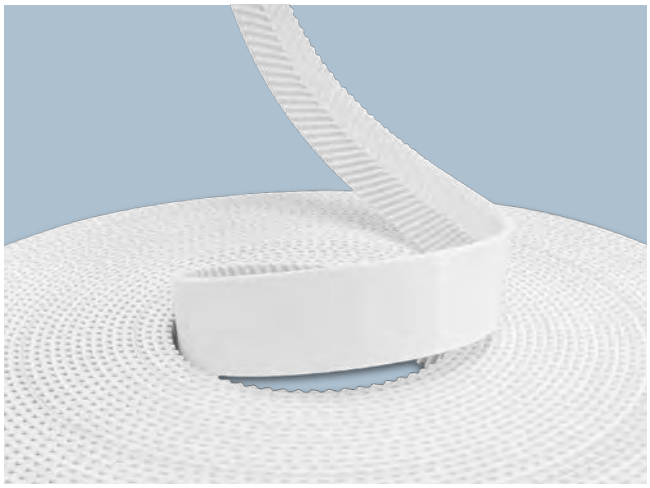
MEGALINEAR QST14 OPEN-END

BELT CHARACTERISTICS

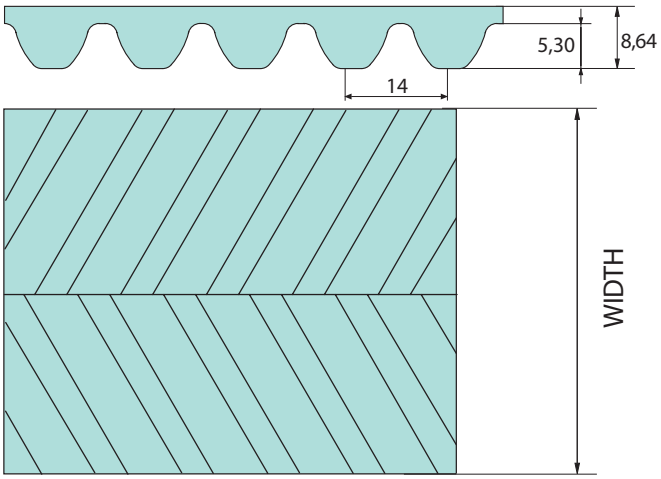
STANDARD WIDTHS (mm)	35	52,5	70	105
Weight (gr/m)	400	600	800	1200

Standard compound: **white Polyurethane thermoplastic 92 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **-/+ 1 mm**
Standard length tolerance: **-/+ 0,8 mm/m**
Standard roll length: **100 m**
Standard thickness tolerance: **-/+ 0,4**

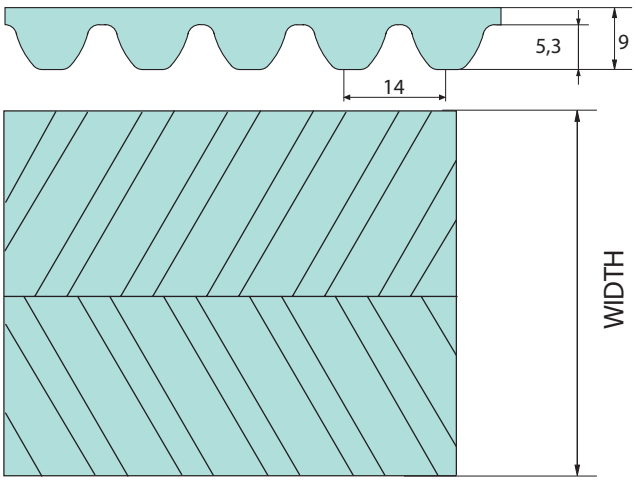
Different back coating materials see page 118
Please ask the feasibility to customer service or OEM team



Steel cords



XHP cords



TOOTH RESISTANCE

	RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750
	$F_{p\ spec}$ (N/cm)	**160**	**157**	**154**	**152**	**149**	**147**	**137**	**130**	**122**	**117**	**105**

	RPM (1/min)	1000	1250	1500	1750	2000	2500	3000	3500	4000
	$F_{p\ spec}$ (N/cm)	**96**	**89**	**83**	**77**	**72**	**64**	**57**	**50**	**47**

Minimum suggested number of teeth in clamp for linear movement: 7- XHP cords minimum suggested number of teeth in clamp 10

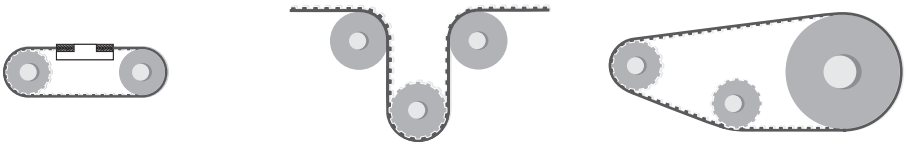
TRACTION RESISTANCE

	Belt width (mm)	35	52,5	70**	105**
Steel	Max Traction Load (N)	11200	17680	23575	36210
	Breaking Strength (N)	44800	67200	89600	137600
	Elongation at MTL (mm/m)	4	4	4	4
XHP	Max Traction Load (N)	15155	26525	34105	53050
	Breaking Strength (N)	57600	100800	129600	201600
	Elongation at MTL (mm/m)	4	4	4	4

Average values

****XHP VERSION** Under construction

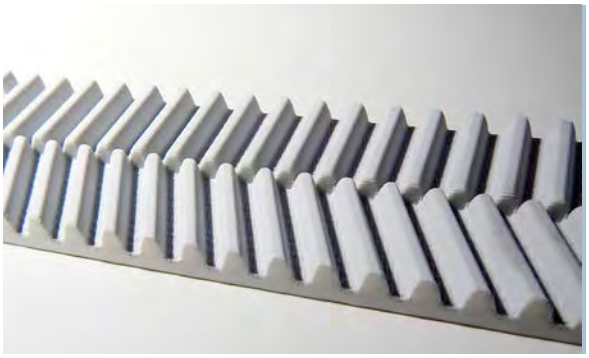
FLEXION RESISTANCE



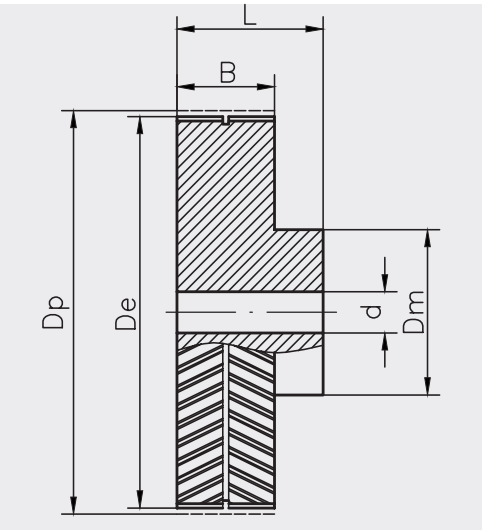
	z_{min}	z_{min}	Idler min dia (mm)	z_{min}	Idler min dia (mm)
Standard steel cords	32	32	200	32	140
Extra high power cords	32	32	200	32	140

JOINED BELT INFORMATION

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 118



PULLEYS



N° Teeth	Dp	De
32	142,61	139,81
34	151,52	148,73
36	160,43	157,64
38	169,35	166,55
40	178,26	175,46
48	213,91	211,12

MEGALINEAR GW14 OPEN-END

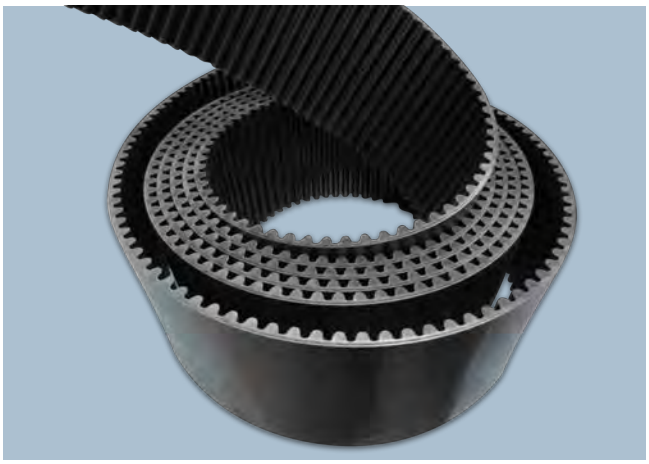
BELT CHARACTERISTICS

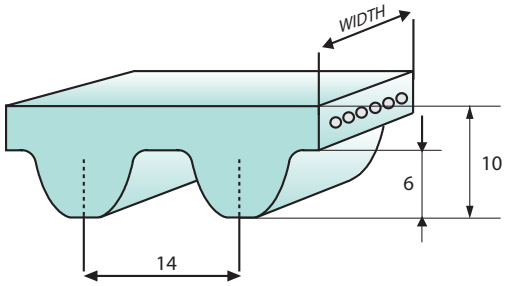
STANDARD WIDTHS (mm)	50	100	150	200
Weight (gr/m)	740	1500	2250	3000

Standard compound: **black Polyurethane thermoplastic 96 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **-/+ 1 mm**
Standard length tolerance: **+0 -0,6 mm/m**
Standard roll length: **100 m**

Suggestions: this type of belts must be well pre-tensioned.

Different back coating materials see page 118





TOOTH RESISTANCE

	RPM (1/min)	0	20	40	60	80	100	200	300	400	500
	$F_{p\ spec}$ (N/cm)	**155**	**152**	**149**	**147**	**145**	**142**	**131**	**123**	**116**	**112**

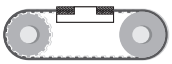
Linear speed over 7m/s, please contact our technical department
Minimum suggested number of teeth in clamp for linear movement: 13

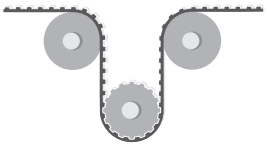
TRACTION RESISTANCE

	Belt width (mm)	50	100	150	200
Steel	Max Traction Load (N)	28400	60600	92800	123100
	Breaking Strength (N)	108000	230400	352800	468000
	Elongation at MTL (mm/m)	5,5	5,5	5,5	5,5

Average values

FLEXION RESISTANCE

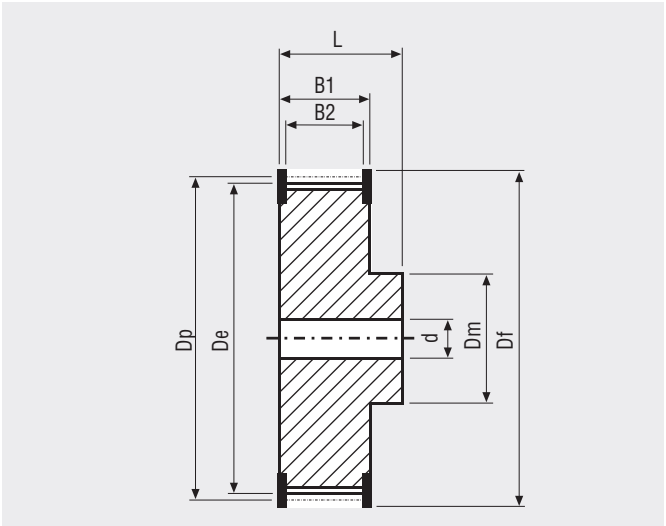




	z_{min}	z_{min}	Idler min dia (mm)
Standard steel cords	32	36	250

TYPICAL BELT APPLICATION - AUTOMATIC WAREHOUSE

PULLEYS Suggestions: material steel.- Use only pulley with gw profile. – Flanges 3,5mm fixed with screws. B2= belt's width+16 mm.



N° Teeth	Dp	De
32	142,60	139,80
34	151,52	148,72
36	160,43	157,63
38	169,34	166,54
40	178,25	175,45
44	196,08	193,28
48	213,90	211,10
56	249,56	246,76
64	285,21	282,41
72	320,86	318,06
80	356,51	353,71
90	401,07	398,27

MEGALINEAR GW20 OPEN-END

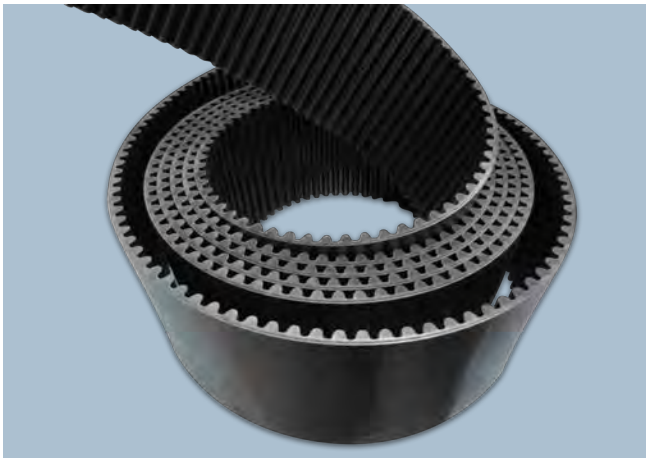
BELT CHARACTERISTICS

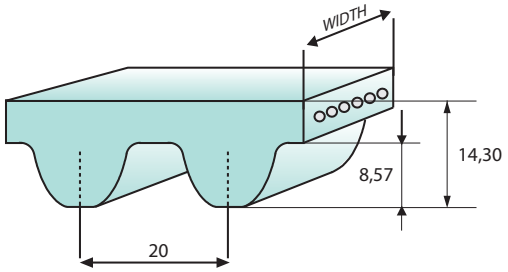
STANDARD WIDTHS (mm)	50	100	150	200
Weight (gr/m)	1050	2030	3040	4060

Standard compound: **black Polyurethane thermoplastic 96 ShA**
Standard back cover: **none**
Standard tooth cover: **nylon fabric (NFT)**
Standard cords: **S and Z torsion zinked steel**
Standard width tolerance: **-/+ 2 mm**
Standard thickness : **14,3 +/– 0,6 mm**
Standard length tolerance: **+0 – 1,6mm/m**
Standard roll length: **100 m**

Suggestions: this type of belts must be well pre-tensioned.

Different back coating materials see page 118





TOOTH RESISTANCE

	RPM (1/min)	0	20	40	60	80	100	200	300	400	500
	$F_{p\ spec}$ (N/cm)	**210**	**207**	**198**	**192**	**187**	**182**	**168**	**158**	**150**	**144**

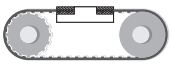
Linear speed over 7m/s, please contact our technical department
Minimum suggested number of teeth in clamp for linear movement: 15

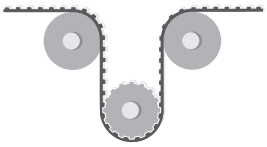
TRACTION RESISTANCE

	Belt width (mm)	50	100	150	200
Steel	Max Traction Load (N)	37900	78900	120000	161000
	Breaking Strength (N)	144000	300000	456000	612000
	Elongation at MTL (mm/m)	5,5	5,5	5,5	5,5

Average values

FLEXION RESISTANCE

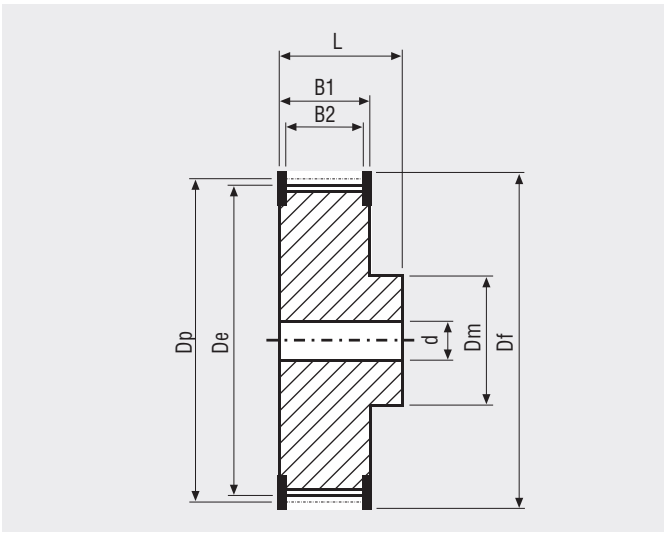




	z_{min}	z_{min}	Idler min dia (mm)
Standard steel cords	38	44	380

TYPICAL BELT APPLICATION - AUTOMATIC WAREHOUSE

PULLEYS Suggestions: material steel.- Use only pulley with gw profile. – Flanges 3,5mm fixed with screws. B2= belt's width+16 mm.



N° Teeth	Dp	De
38	241,92	237,60
40	254,65	250,33
44	280,11	275,79
48	305,58	301,26
56	356,51	352,19
64	407,44	403,12
72	458,37	454,05
80	509,30	504,98

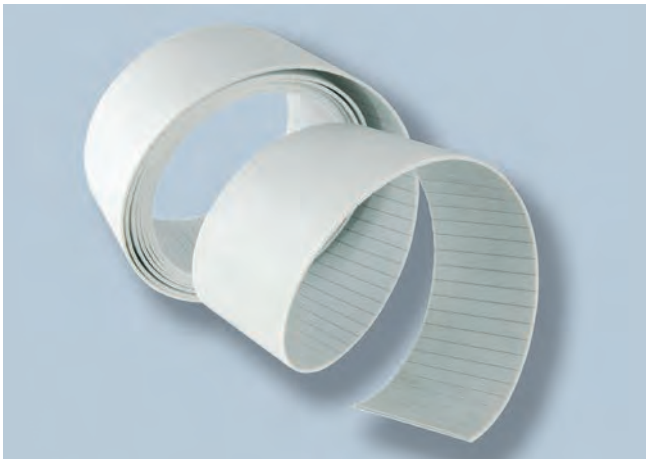
MEGALINEAR FLAT OPEN-END

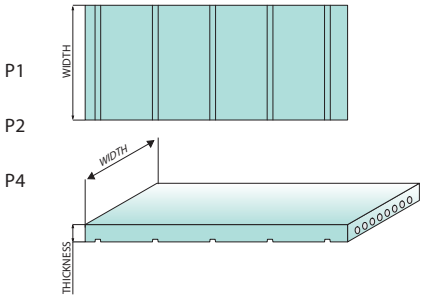
BELT CHARACTERISTICS

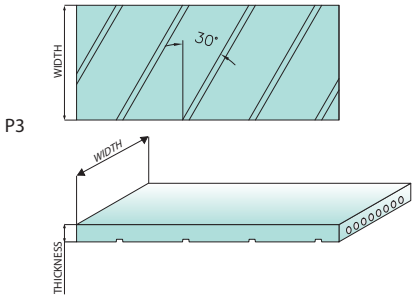
	10 P1	20 P1	25 P2	50 P2	75 P2	100 P2
Weight (gr/m)	20	40	135	245	370	490
Polyurethane 92 ShA	blue	blue	white	white	white	white
Width tolerance(mm)	10 +/-0,5	20 +/-0,5	25 +/-0,5	50 +/-0,5	75 +/-0,5	100 +/-0,5
Thickness (mm)	1+/-0,1	1+/-0,1	2+/-0,2	2+/-0,2	2+/-0,2	2+/-0,2
Gap	Straight	Straight	Straight	Straight	Straight	Straight

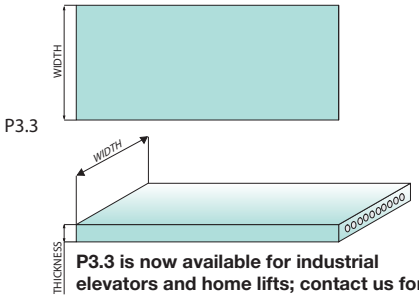
	30 P3	60 P3	100 P3	120 P3	25 P4	50 P4	100 P4
Weight (gr/m)	213	426	710	852	220	445	890
Polyurethane 92 ShA	black	black	black	black	transparent	transparent	transparent
Width (mm)	30 +/-0,5	60 +/-0,5	100 +/-0,5	120 +/-0,5	25 +/-0,5	50 +/-0,5	100 +/-0,5
Thickness (mm)	3,2+/-0,2	3,2+/-0,2	3,2+/-0,2	3,2+/-0,2	4+0,4/-0	4+0,4/-0	4+0,4/-0
Gap	Helical	Helical	Helical	Helical	Straight	Straight	Straight

Standard back cover: **none**
Standard tooth cover: **none**
Standard cords: **S and Z torsion zinked steel**
Standard roll length: **100 m**
Belt options on request with minimum quantity:
Nylon fabric back
Nylon fabric teeth
Antistatic nylon fabric
No gap
Silicon free compound
Special thickness tolerances by grinding (suggested for applications with rolled belts)









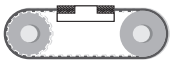
P3.3 is now available for industrial elevators and home lifts; contact us for more information.

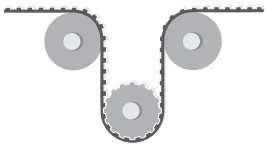
TRACTION RESISTANCE

	Belt width (mm)	10 P1	20 P1	25 P2	50 P2	75 P2	100 P2
Steel	Max Traction Load (N)	490	980	3800	8075	13000	17500
	Breaking Strength (N)	1965	3935	15200	32300	49400	66500
	Elongation at MTL (mm/m)	4	4	4	4	4	4
HP	Max Traction Load (N)	–	–	5190	11245	18210	24580
	Breaking Strength (N)	–	–	20760	44980	69200	93420
	Elongation at MTL (mm/m)	–	–	4	4	4	4

	Belt width (mm)	30 P3	60 P3	100 P3	120 P3	25 P4	50 P4	100 P4
Steel	Max Traction Load (N)	9120	19200	32000	42560	8000	16000	34525
	Breaking Strength (N)	36480	72960	121600	148960	32000	64000	131200
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4

FLEXION RESISTANCE



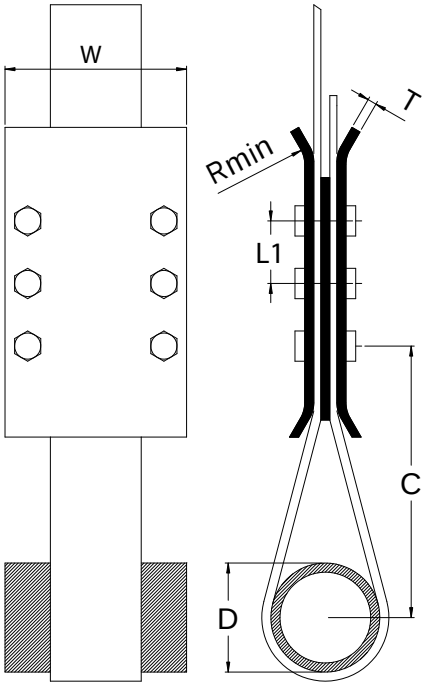


	Driver pulley min dia (mm)	Driver pulley min dia (mm)	Idler min dia (mm)
Standard steel cords P1	16	25	30
Standard steel cords P2	45	50	90
High Power cords P2	56	62	150
Standard steel cords P3	100	110	150
Standard steel cords P4	100	110	150

FIXING PLATES

DIMENSION OF THE FIXING PLATES

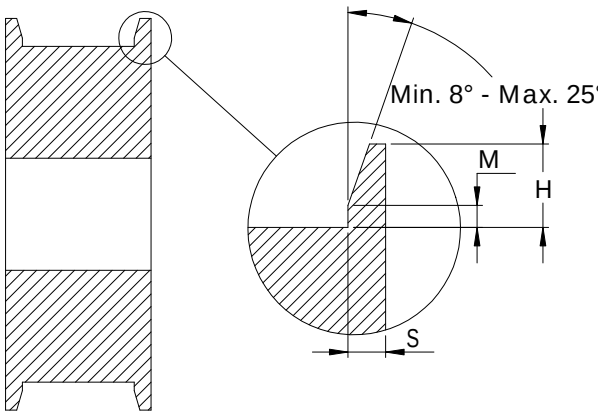
Clamping plates dimensions						Suggested clamping plate width W (mm)								
Belt type	L1 (mm)	C (mm)	D (mm)	T (mm)	Rmin (mm)	10	20	25	30	50	60	75	100	120
P1	20	25	16	3	10	20	20	30	-	-	-	-	-	-
P2	25	30	20	3	10	-	-	50	-	75	-	100	-	-
P2 HP	25	30	20	3	10	-	-	50	-	75	-	100	-	-
P3	30	75	50	5	25	-	-	-	60	-	90	-	132	160
P4	30	120	80	7	40	-	-	-	-	75	-	-	125	-

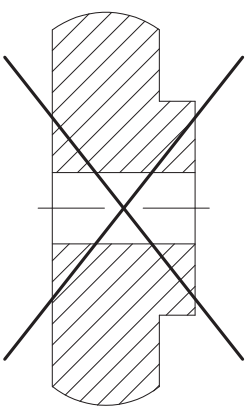


SUGGESTION ABOUT THE FIXING SCREW

		Belt width (mm)								
Belt type	Kind of screws	10	20	25	30	50	60	75	100	120
		Suggested number of screws								
P1	M5	4	4	-	-	-	-	-	-	-
P2	M6	-	-	4	-	4	-	6	8	-
P2 HP	M6	-	-	4	-	6	-	8	10	-
P3	M8	-	-	-	4	-	6	-	8	12
P4	M10	-	-	4	-	4	-	-	6	-

PULLEYS





Not suggested

Suggested material: Alluminium or Zinked steel
Maximum superficial roughness: 1.6 Ra

Flanges according the table

Belt type	S (mm)	M (mm)	H (mm)
P1	1,5	0,4+0,3/0	2,1+0,25/0
P2	2,3	0,4+0,3/0	2,1+0,25/0
P2 HP	2,3	0,4+0,3/0	2,1+0,25/0
P3	3	0,9+0,5/0	5+0,25/0
P4	3	0,9+0,5/0	5+0,25/0

H: minimum height of flanges
S: minimum thickness of flanges
Rounded corner not quoted R = 0,8 mm

MEGALINEAR FC T5

T 5						
STANDAR WIDTHS (mm)	**25**	**32**	**50**	**75**	**100**	**150**
Width tolerance(mm)	+/- 0,25	+/- 0,25	+/- 0,5	+/- 0,5	+/- 0,75	+/- 0,75

SMOOTH SURFACE

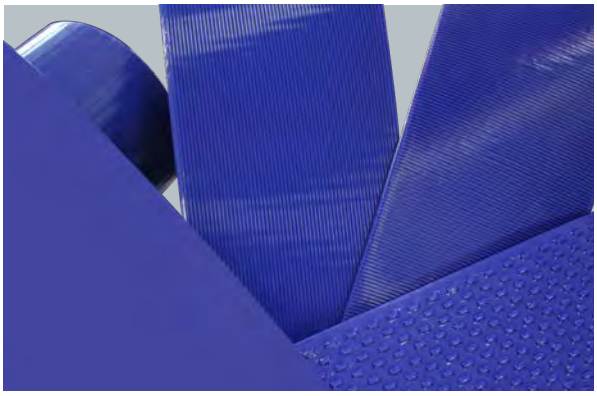
Standard compound: **dark blue Polyurethane thermoplastic 85 ShA**

Total Thickness : **2,8 +/- 0,3 mm**

Height of the profile: **0 mm**

Standard cords: **S and Z torsion Kevlar**

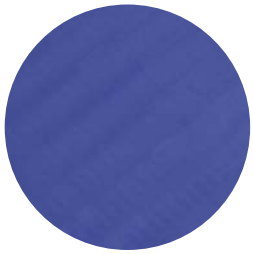
Standard roll length: **50 m**

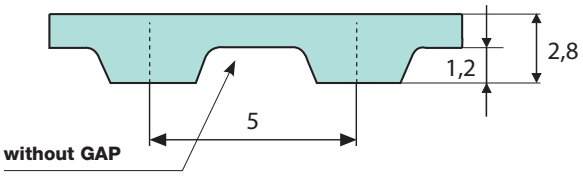


Belts produced with raw materils, in compliance with:
- FDA 21 CFR 177.2600 / 177.105 / 177.1680 (USA)
-USDA - NSF/ANSI/3-A 14159-3 – 2010 Hygienc Design (Meat and Poultry Processing).

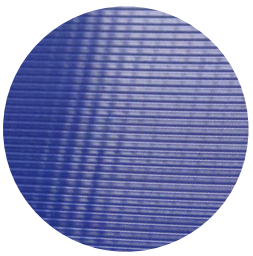
-European Directives 82/711/EEC, 85/572/EEC, 93/8/EEC e 97/48/EEC
-Regulation (EC) n° 1935/2004 (art. 3, art.11, par.5, art.15, art.17) e 1895/2005 and (EU) n° 10/2011
-Belts produced according to the Regulation (EU) n° 2023/2006 GMP (Good Manufacturing Practice).

SMOOTH

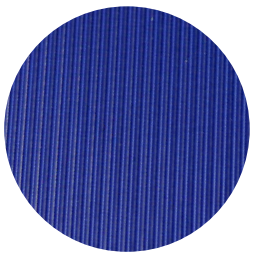




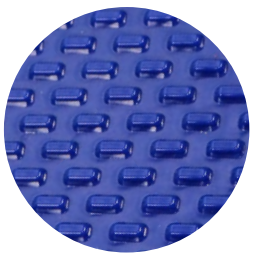
Standard Surfaces	Total Thickness	Profile Height	Roll Length
Smooth	2,8 +/- 0,3 mm	0 mm	50 m
Longitudinal Ribbed	4,0 +/- 0,3 mm	1,25 mm	50 m
Transversal Ribbed	4,0 +/- 0,3 mm	1,25 mm	50 m
Noppen Oval	5,2 +/- 0,3 mm	2,1 mm	50 m
Roof	Not currently available in T5 pitch		
Spike Top	4,1 +/- 0,3 mm	1,3 mm	50 m



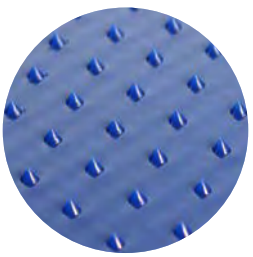
LONGITUDINAL RIBBED



TRANSVERSAL RIBBED



NOPPEN OVAL



SPIKE TOP

T 10						
STANDAR WIDTHS (mm)	**25**	**32**	**50**	**75**	**100**	**150**
Width tolerance(mm)	+/- 0,25	+/- 0,25	+/- 0,5	+/- 0,5	+/- 0,75	+/- 0,75

SMOOTH SURFACE

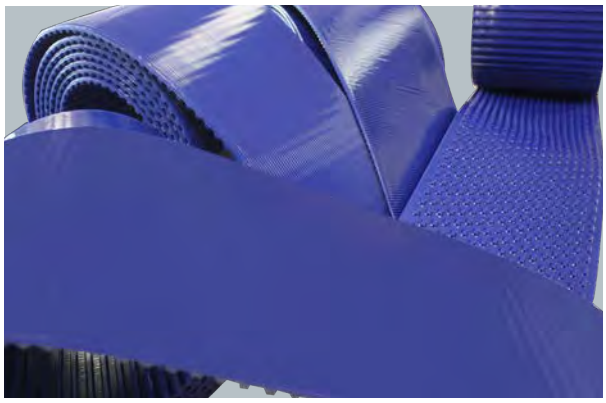
Standard compound: **dark blue Polyurethane thermoplastic 85 ShA**

Total Thickness : **4,8 +/- 0,3 mm**

Height of the profile: **0 mm**

Standard cords: **S and Z torsion Kevlar**

Standard roll length: **50 m**



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-USDA - NSF/ANSI/3-A 14159-3 – 2010 Hygienc Design (Meat and Poultry Processing).
-European Directives 82/711/EEC, 85/572/EEC, 93/8/EEC e 97/48/EEC
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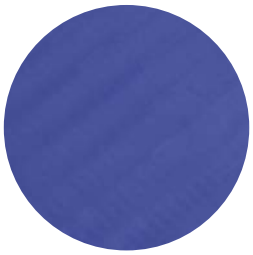
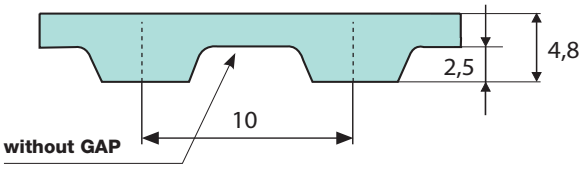
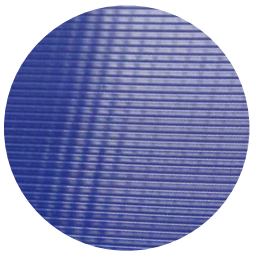
-Belts produced according to the Regulation (EU) n° 2023/2006 GMP (Good Manufacturing Practice).

SMOOTH

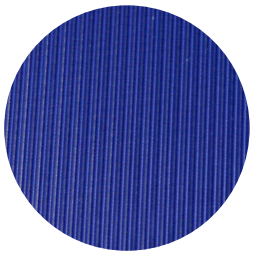




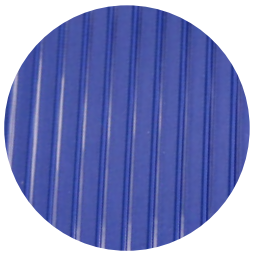
Standard Surfaces	Total Thickness	Profile Height	Roll Length
Smooth	4,8 +/- 0,3 mm	0 mm	50 m
Longitudinal Ribbed	6,05 +/- 0,3 mm	1,25 mm	50 m
Transversal Ribbed	6,05 +/- 0,3 mm	1,25 mm	50 m
Noppen Oval	7,7 +/- 0,3 mm	2,1 mm	50 m
Roof	6,2 +/- 0,3 mm	1,7 mm	50 m
Spike Top	6,1 +/- 0,3 mm	1,3 mm	50 m



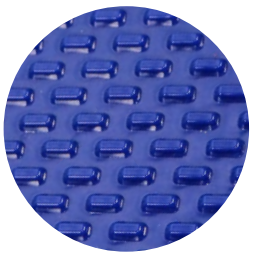
LONGITUDINAL RIBBED



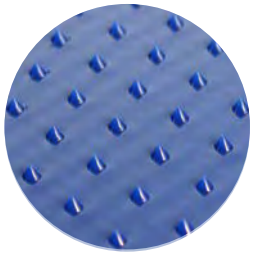
TRANSVERSAL RIBBED



ROOF



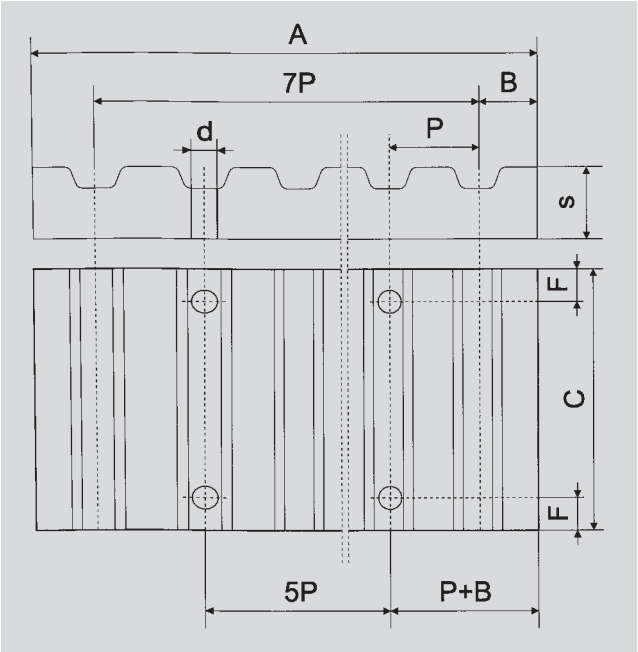
NOPPEN OVAL



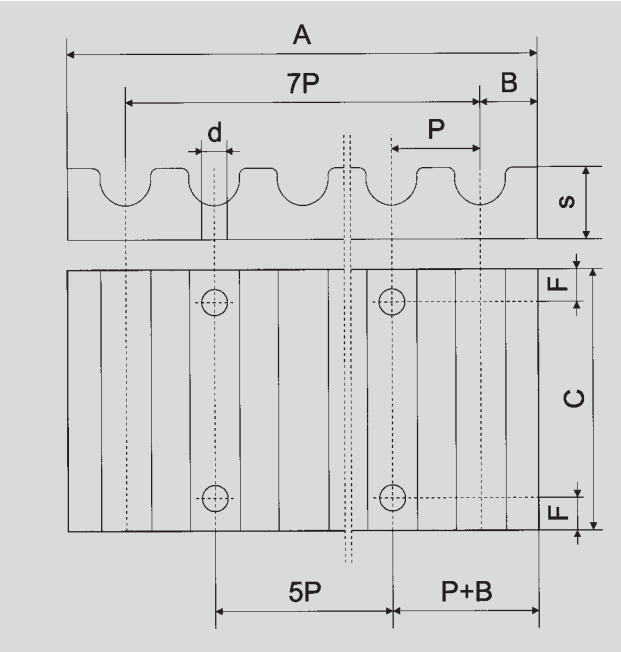
SPIKE TOP

FIXING PLATES

The fixing plates are used to fix the tail of the open belts.
On the customer's request, the plates can be delivered with or without fixing holes.
As the belt can't be stretched with the fixing plates we suggest to use other tension system.
The plates are delivered in aluminium alloy.
The Megadyne Technical Staff is ready to study special or particular applications.



XL - L - H - T5 - T10 - T20 - AT5 - AT10 - AT20



HTD

Order code example: AT10 pitch clamping plate for 25 mm width belt.

Clamping plates for imperial pitch belts

						Belt width (inches)								
Aluminium	Pitch	F	d	B	A	S	025	037	050	075	100	150	200	300	400
							C								
	• XL	6	5,5	3,5	42,5	8	25,5	28,5	32	38	45	–	–	–	–
	• L	8	9	5	76,5	15	–	–	39	45	51,5	64	77	–	–
	• H	10	11	9	106,9	22	–	–	45	51	57,5	70	83	108	134

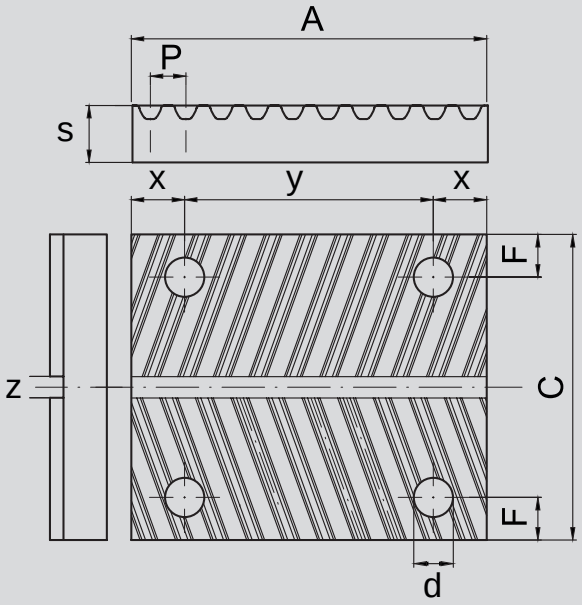
Clamping plates for HTD pitch belts

						Belt width (mm)												
Aluminium	Pitch	F	d	B	A	S	6	9	10	15	20	25	30	40	50	55	85	115	170
							C												
	• 5M	6	5,5	3,25	41,5	8	25	28	–	34	–	44	–	–	–	–	–	–	–
	• 8M	8	9	5	66	15	–	–	35	40	45	–	55	–	75	–	110	–	–
	• 14M	10	11	9	116	22	–	–	–	–	–	56	–	71	–	86	116	146	201

Clamping plates for metric pitch belts

						Belt width (mm)								
Aluminium	Pitch	F	d	B	A	S	6	10	16	20	25	32	50	75	100
							C								
	• T5 • AT5	6	5,5	3,25	41,65	8	25	29	35	39	44	51	69	–	–
	• T10 • AT10	8	9	5	80	15	–	35	41	–	50	57	75	100	125
	• T20 • AT20	10	11	10	160	20	–	–	–	–	56	63	81	106	132

• Available in customized length



Clamping plates for QST 5

	Pitch	BELT'S WIDTH (mm)	F	d	A	S	x	y	z	C
Aluminium	• QST 5	**12**	6	5,5	50	8	7,5	35	3	43
		24	6	5,5	50	8	7,5	35	3	43

Clamping plates for QST 8

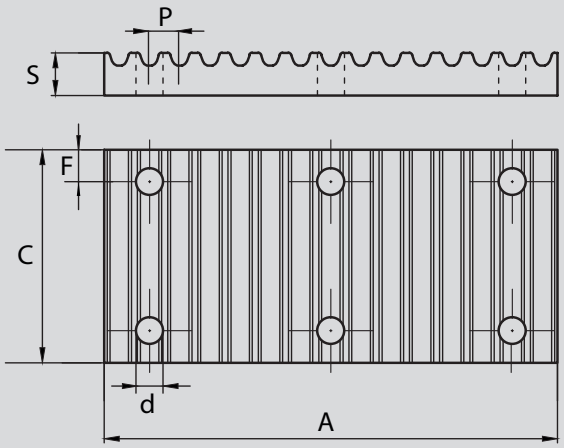
	Pitch	BELT'S WIDTH (mm)	F	d	A	S	x	y	z	C
Aluminium	• QST 8	**16**	7,5	9	74	14,5	13	48	3	40
		25	8	9	74	14,5	13	48	3	50
		32	8	9	74	14,5	13	48	3	57
		50	8	9	74	14,5	13	48	3	75

Clamping plates for QST 14

	Pitch	BELT'S WIDTH (mm)	F	d	A	S	x	y	z	C
Aluminium	• QST 14	**35**	9,5	11	130	22	23	84	3	65
		52,5	9,5	11	130	22	23	84	3	82,5
		70	9,5	11	130	22	23	84	3	100
		105	10	11	130	22	23	84	3	136

• Available in customized length

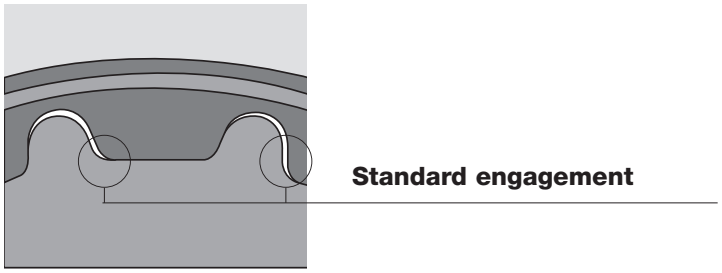
FIXING PLATES GW



	Clamping plates for GW14							
Steel		BELT'S WIDTH (mm)	A (mm)	C (mm)	S (mm)	F (mm)	d (mm)	Screws UNI-EN 14399-8.8	N° of screws
	Pitch	**50**	210	100	20	15	12,5	M12	2X3
	• GW14	**100**	210	150	20	15	12,5	M12	2X3
		150	210	200	20	15	12,5	M12	2X5
		200	210	250	20	15	12,5	M12	2X6

	Clamping plates for GW20							
Steel		BELT'S WIDTH (mm)	A (mm)	C (mm)	S (mm)	F (mm)	d (mm)	Screws UNI-EN 14399-8.8	N° of svrews
	Pitch	**50**	340	110	36	15	16,5	M16	2X3
	• GW20	**100**	340	160	36	15	16,5	M16	2X3
		150	340	210	36	15	16,5	M16	2X4
		200	340	260	36	15	16,5	M16	2X5

Backlash between belt and pulley teeth is very important for positioning and transmission synchronism.



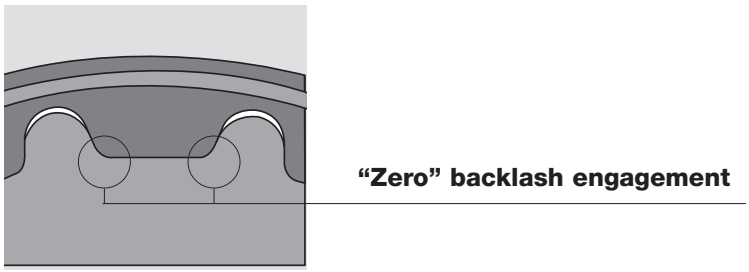
To imporve transmission precision, it is possible to use zero or reduced backlash pulleys. Please note that these pulleys don't reduce the elasticity of belt teeth or cords.

Maximum recommend pulley teeth is:

Till 100 1/min Z = 40

Till 500 1/min Z = 30

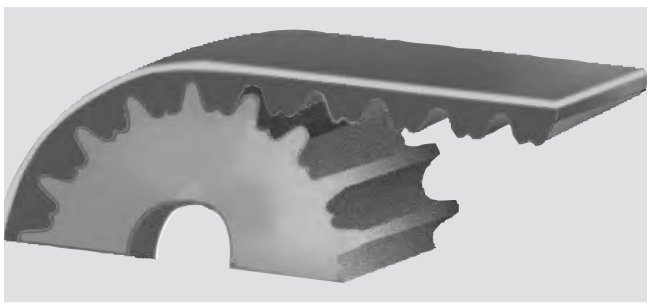
Till 1000 1/min Z = 20



In following table there is a list of average values for backlashes:

Available pitch for "zero" backlash pulley	T5 XL	T10 L H	T20 XH	AT5	AT10	AT20
Average backlash value for standard	0,6	1,2	2,4	0,2	0,4	0,8

RPP belts and pulleys offer great solution for positioning system because their parabolic profile reduces backlash and improves meshing quality.

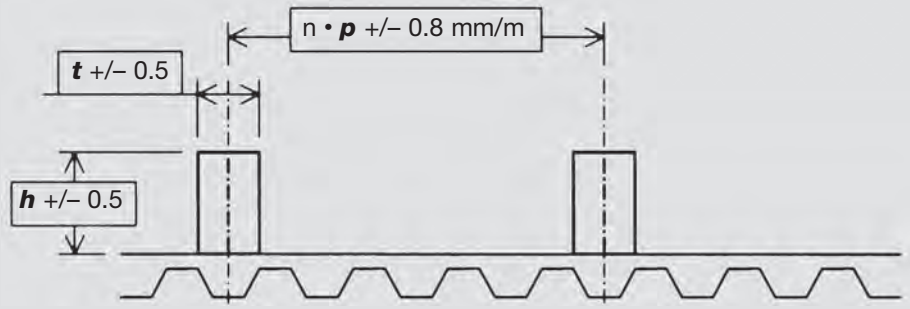


CLEATS

Megadyne timing belts can be customised with profiles vulcanised on the backside. All the cleats are made using the same thermoplastic polyurethane as the MEGALINEAR body (white PU 92 ShA).
The profiles are attached with the best technology now available, the High Vibration System.
The production process for these profiles is very flexible; Megadyne can design any profile to meet the specific requirement of the customer, in order to check and develop all the needed special profiles.

STANDARD PARALLELEPIPED PROFILES

Megadyne can produce, as standard cleats, the parallelepiped profiles, starting from a thermoplastic polyurethane strip roll and cutting until the requested profile dimension.
The t value (thickness) is available from 2 until 13 mm, the h value (height) can be from 3 until 120 mm and the width can be 150 mm maximum.
Megadyne recommend that the profile spacing were multiple of the belt pitch; in any case, for special inquiries and small quantities, it is possible to weld the profiles also in others positions; the feasible dimensions, with the standard process tolerances, are introduced in the following sketch.

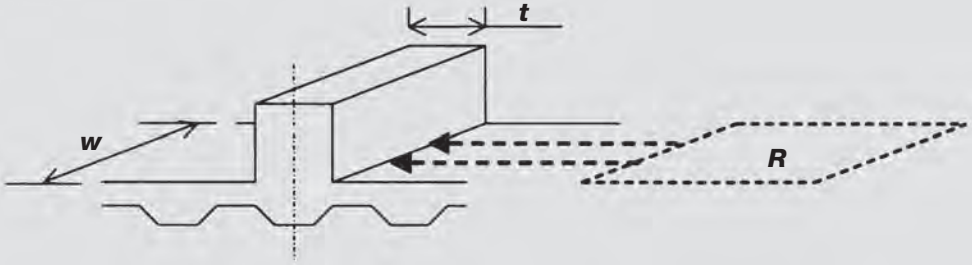


The tolerances on the position are +/– 0.5 mm.
The cumulative tolerance on the spacing of the profiles is the same of the length tolerance for our standard belts (+/– 0.8 mm/m) (tighter tolerances are available on request).
Due to the welding process, a bead of material develops at the meeting point of profile and belt.
In any case, Megadyne always remove this welding bead.

Profile MECHANICAL RESISTANCE

In order to find the right cleat dimensions, please consider the following factors:

- Section base cleats resistance ***(R)*** becomes bigger, increasing:
  - cleats width ***(w)***
  - cleats thickness ***(t)***



- Cleat stiffness is bigger:
  - increasing cleat thickness ***(t)***
  - using special moulded profiles, like STDE0006, STDE0008, STDE0010 and STMI0012 types

MIN. N° OF PULLEY TEETH FOR BELTS WITH PROFILES

The profiles presence can change the belt flexibility properties; the two factors that affect the original flexibility are the following:

- thickness of the cleat “foot“ (size of the base). Flexibility decreases when welded area dimensions increase
- position of the welded profile on the belt. When the cle ats are welded in axis with the teeth, belt flexibilty is better than when cleats are welded in axis with the little nose.

Please find, in the following table, flexibility properties for the cleated belts.

MINIMUM NUMBER OF PULLEY TEETH

CLEATS OVER A TOOTH

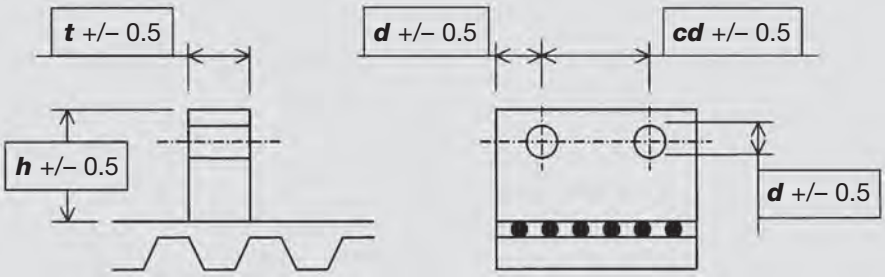
CLEATS THICKNESS	4	5	6	8	10	12
XL	**18**	**18**	**25**	**40**	**50**	**100**
L	**12**	**12**	**18**	**30**	**40**	**60**
H	**14**	**14**	**14**	**18**	**25**	**45**
XH	**18**	**18**	**18**	**28**	**18**	**20**
T5 / AT5	**18**	**18**	**25**	**40**	**50**	**100**
T10 / AT10	**14**	**14**	**14**	**18**	**25**	**45**
T20 / AT20	**18**	**18**	**18**	**18**	**18**	**20**
RPP5	**18**	**18**	**25**	**40**	**50**	**100**
RPP8	**14**	**14**	**14**	**18**	**25**	**45**
RPP14	**18**	**18**	**18**	**18**	**18**	**20**

CLEATS NOT OVER A TOOTH

CLEATS THICKNESS	4	5	6	8	10	12
XL	**45**	**45**	**50**	**60**	**100**	**–**
L	**40**	**40**	**45**	**55**	**60**	**80**
H	**25**	**25**	**30**	**45**	**50**	**65**
XH	**20**	**20**	**30**	**40**	**45**	**54**
T5 / AT5	**45**	**45**	**50**	**60**	**100**	**–**
T10 / AT10	**30**	**30**	**40**	**45**	**50**	**65**
T20 / AT20	**20**	**20**	**30**	**40**	**45**	**54**
RPP5	**45**	**45**	**50**	**60**	**100**	**–**
RPP8	**30**	**30**	**40**	**45**	**50**	**65**
RPP14	**20**	**20**	**30**	**40**	**45**	**54**

STANDARD PARALLELEPIPED PROFILES WITH HOLES

Parallelepided profiles are available also with holes, to satisfy specials applications; please find below the standard tolerances for this kind of cleats.



Tighter tolerances on request

For belt flexibilty and mechanical resistance, please kinldy refer to values for cleats without holes.

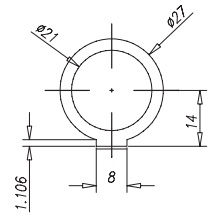
MOULDED CLEATS

Using an high performance injection system, Megadyne can produce any profile designed by the customer. For cleats not yet present in following pages, Megadyne can produce dedicated mould according customer requirements. For belt flexibility and mechanical resistance, please kinldy refer to standard parallelepiped profiles section.

CLEATS

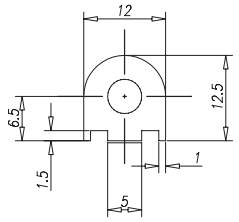
If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

STDE 0001



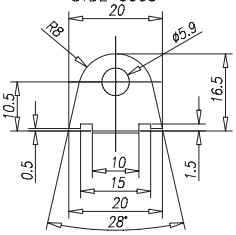
WIDTH = 50mm

STDE 0002



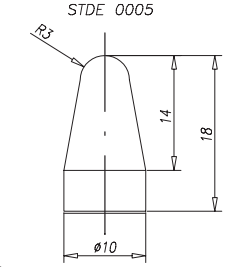
WIDTH = 50mm

STDE 0003

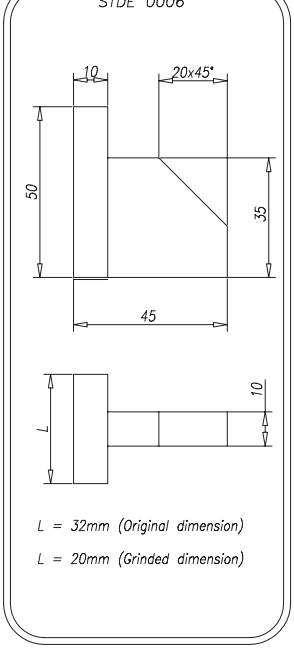


WIDTH = 100mm

STDE 0005



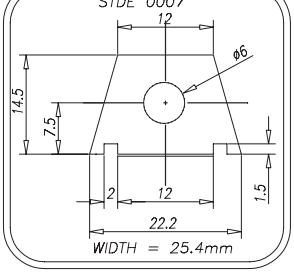
STDE 0006



L = 32mm (Original dimension)

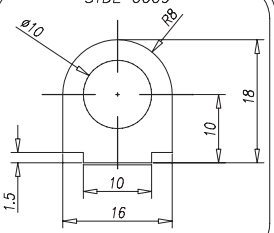
L = 20mm (Grinded dimension)

STDE 0007



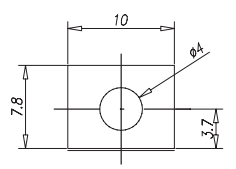
WIDTH = 25.4mm

STDE 0009



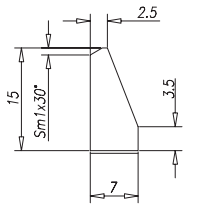
WIDTH = 25mm

STDE 0011



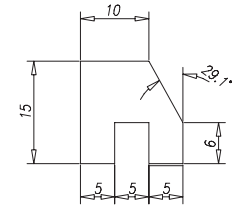
WIDTH = 48mm

STMI 0013



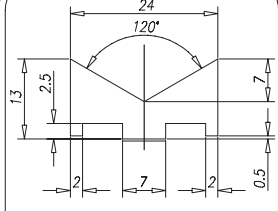
WIDTH = 30mm

STDE 0010



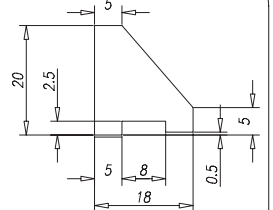
WIDTH = 32mm

STDE 0004



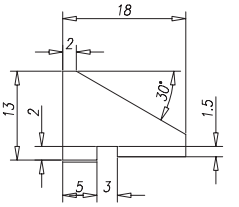
WIDTH = 15mm

STDE 0008



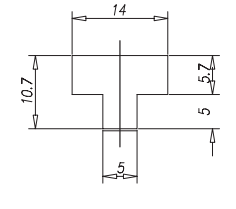
WIDTH = 10mm

STMI 00012



WIDTH = 7.3mm

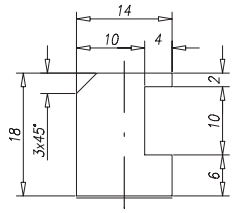
STMI 0018



WIDTH = 25mm

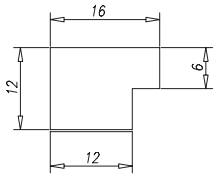
If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

FRME 0019



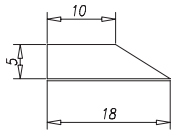
WIDTH = 5mm

FRME 0020



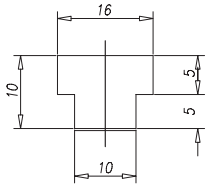
WIDTH = 23mm

FRME 0017



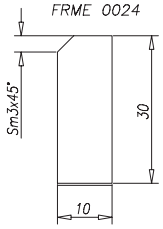
WIDTH = 25mm

FRME 0022



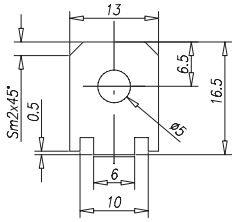
WIDTH = 30mm

FRME 0024



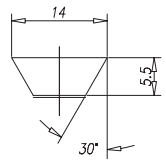
WIDTH = 10mm

ESME 0025



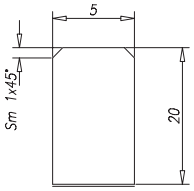
WIDTH = 50mm

ESME 0028



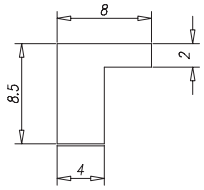
WIDTH = 100mm

FRME 0033



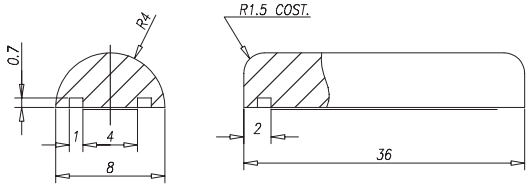
WIDTH = 12mm

FRME 0040

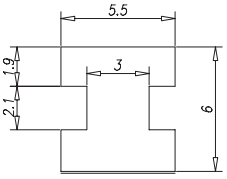


WIDTH = 25.4mm

ST. MI. 0066

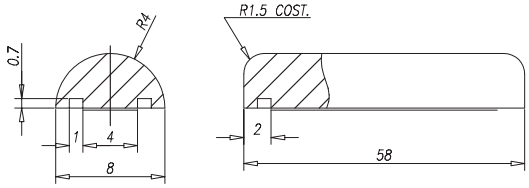


STMI 0043

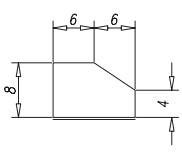


WIDTH = 27mm

ST. MI. 0067



FRME 0045

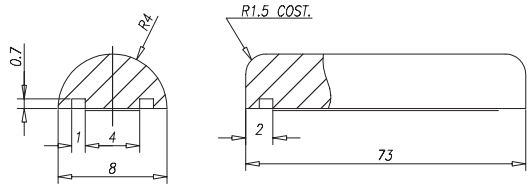


WIDTH = 85mm

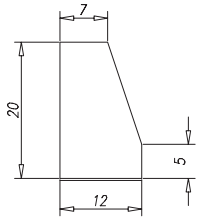
CLEATS

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

ST. MI. 0068

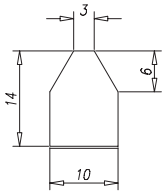


FR. ME. 0050



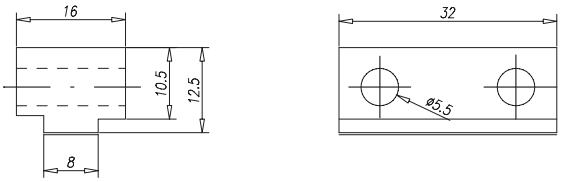
WIDTH = 45mm

FRME 0042

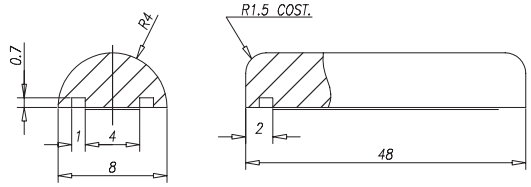


WIDTH = 16mm

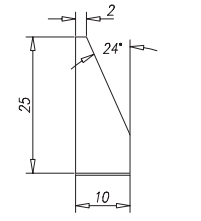
FR. ME. 0062



ST. MI. 0014

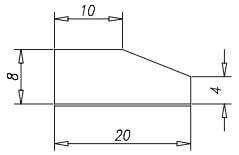


STMI 0044



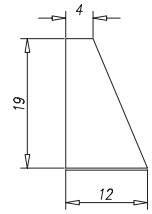
WIDTH = 50mm

FRME 0046



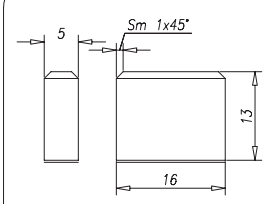
WIDTH = 85mm

FR. ME. 0054

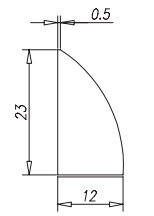


WIDTH = 17mm

FR. ME. 0061

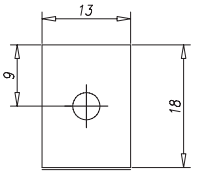


FR. ME. 0063



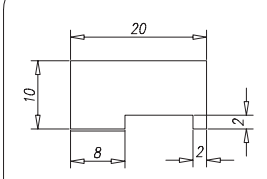
WIDTH = 38.1mm

FR. ME. 0048



WIDTH = 38.1mm

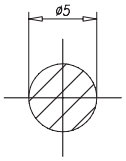
FU. ME. 0051



WIDTH = 25.4mm

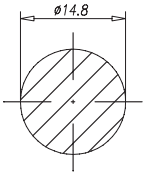
If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

ESME 0021



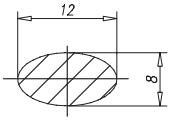
HEIGTH = 100mm

PRLV 0016



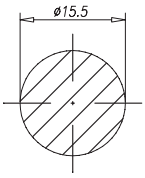
HEIGTH = 100mm

ESME 0023



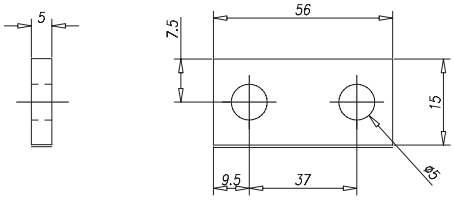
HEIGTH = 100mm

PRLV 0015

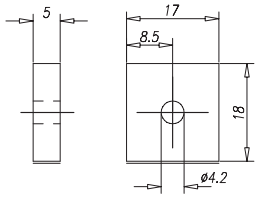


HEIGTH= 100mm

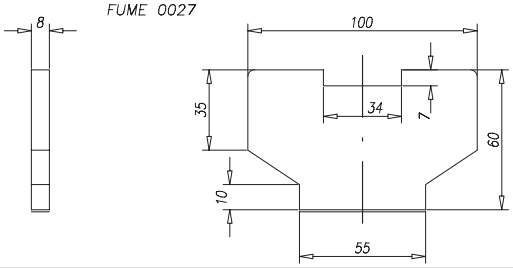
FUME 0032



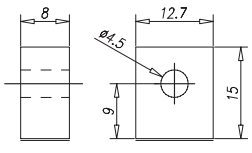
FUME 0029



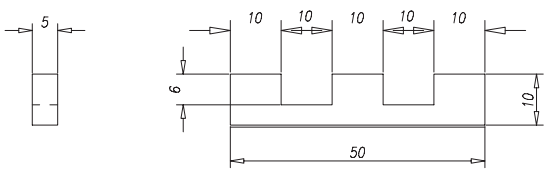
FUME 0027



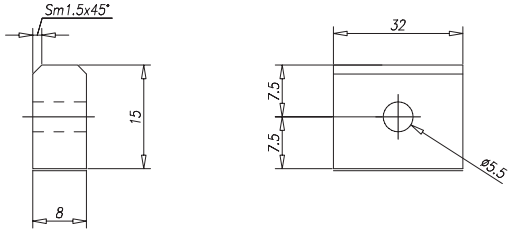
FUME 0036



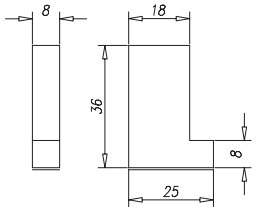
FRME 0038



FRME 0041



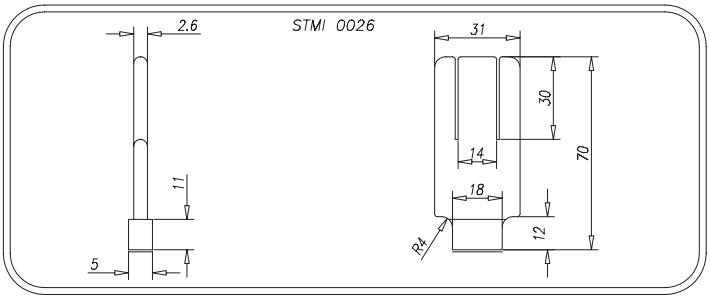
FRME 0037



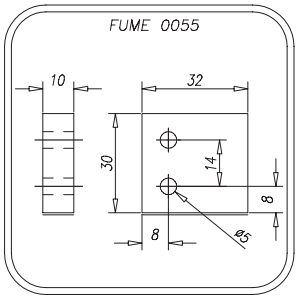
CLEATS

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

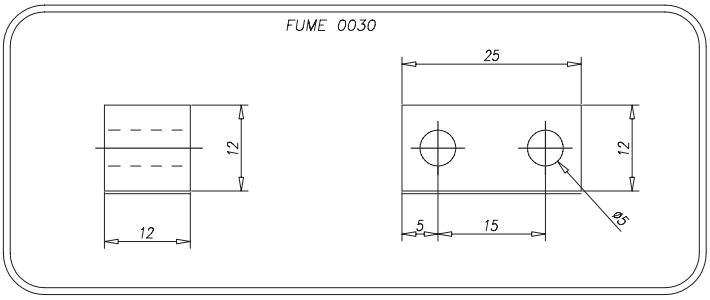
STMI 0026



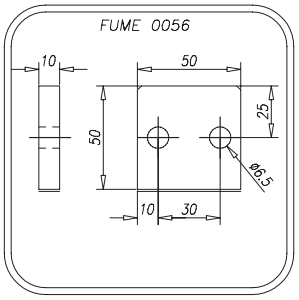
FUME 0055



FUME 0030



FUME 0056



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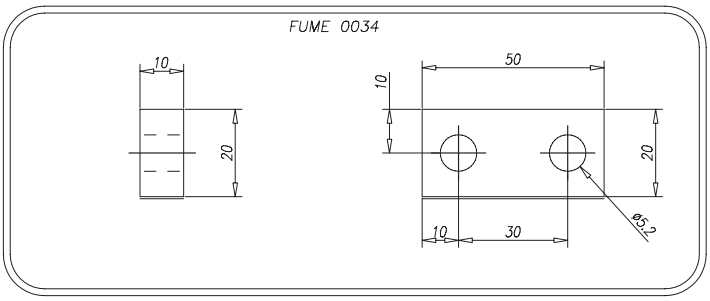

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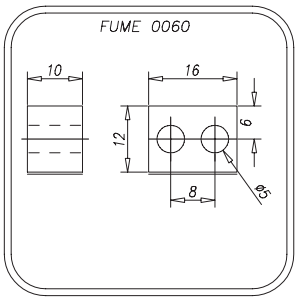

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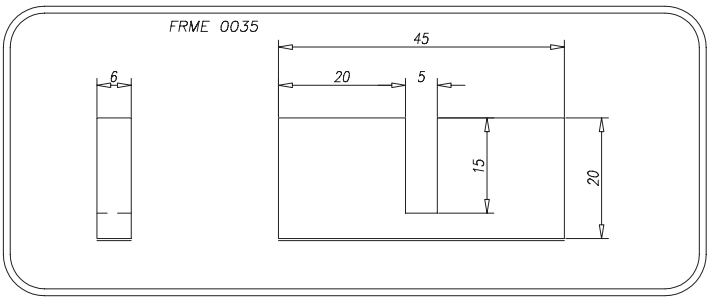

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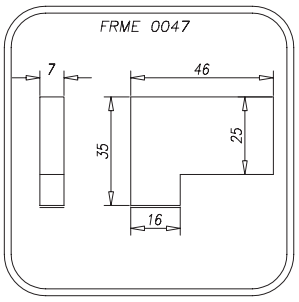

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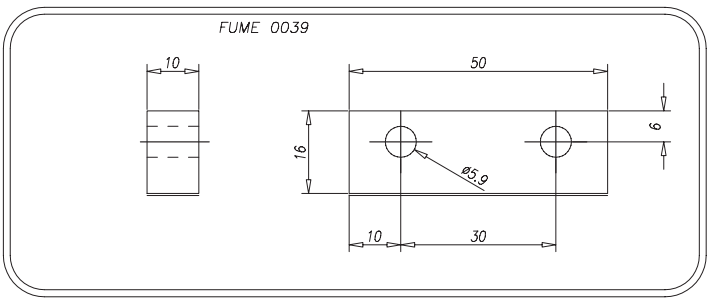

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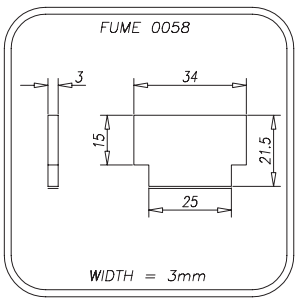
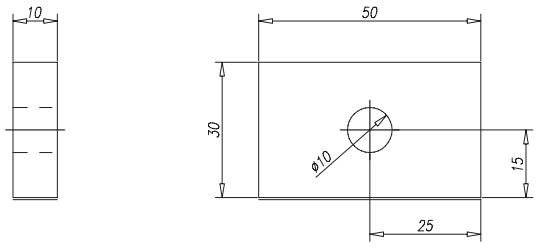


If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

FUME 0052



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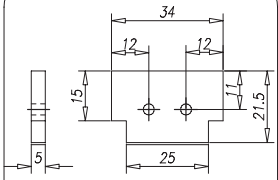

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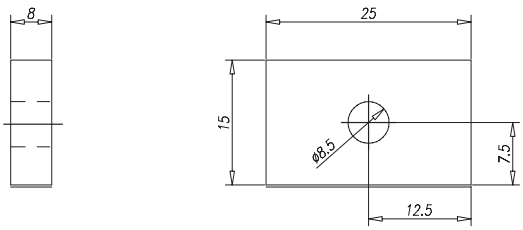

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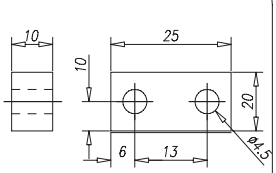

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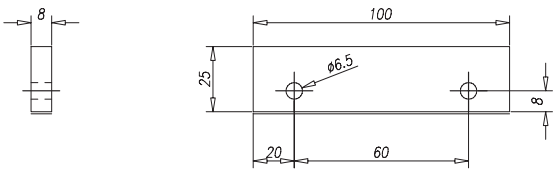

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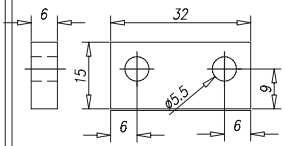

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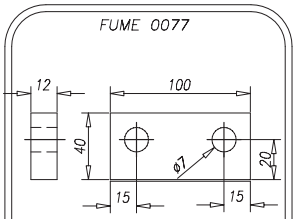

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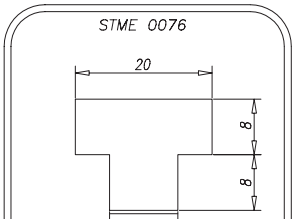

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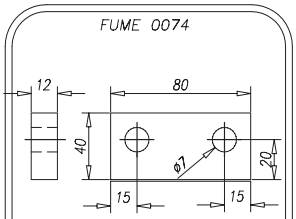

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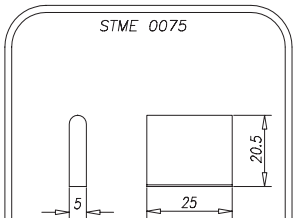

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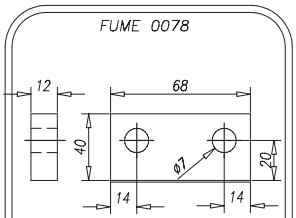

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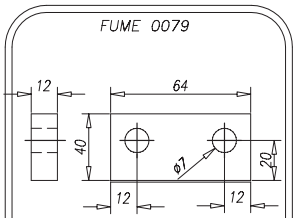
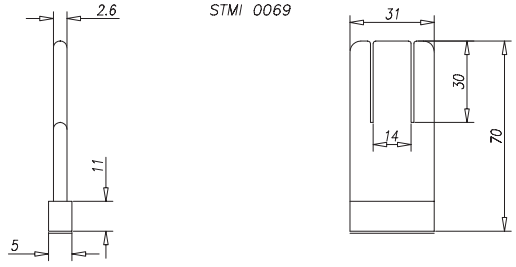


CLEATS

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

STMI 0069



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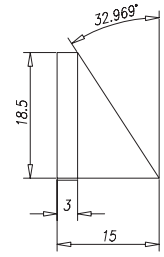

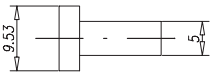

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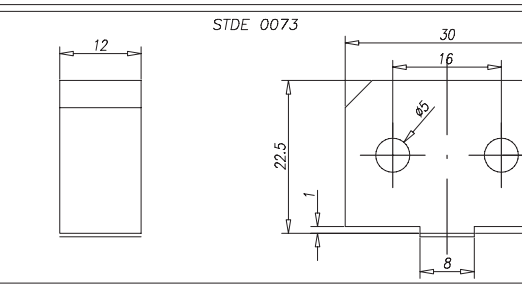

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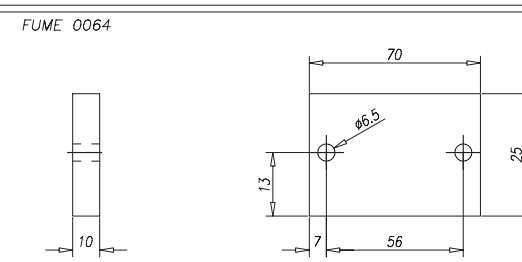

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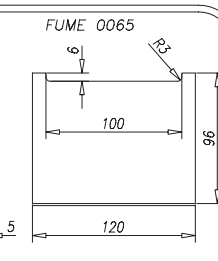

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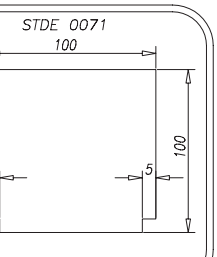

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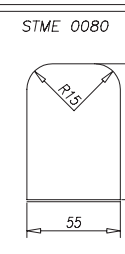

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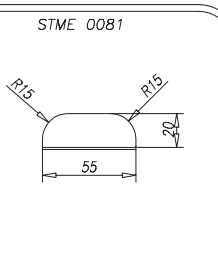

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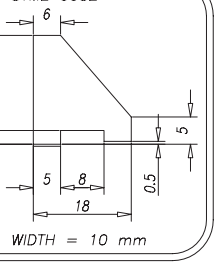

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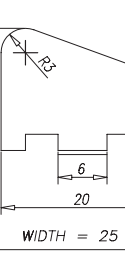

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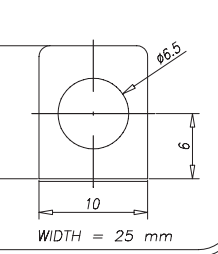
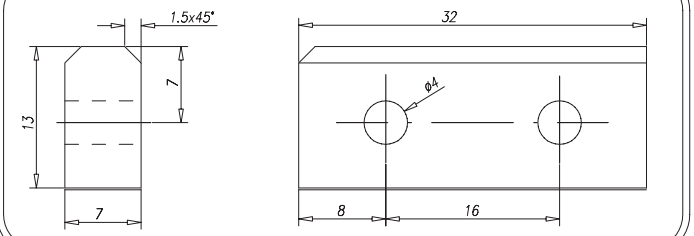


If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

FUME 0083



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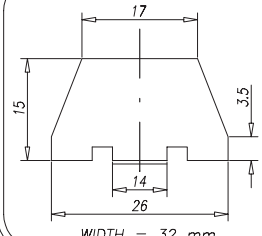

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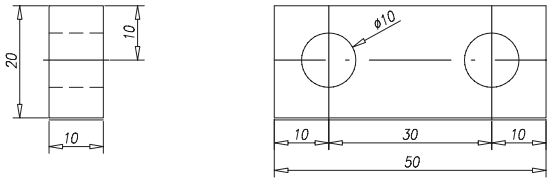

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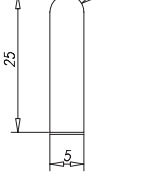

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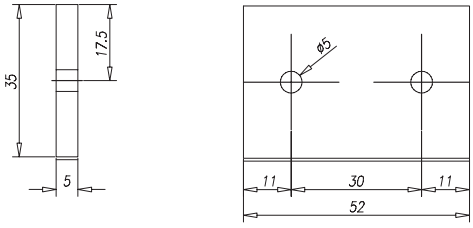

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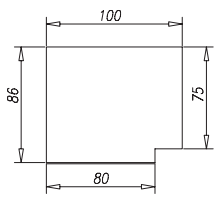

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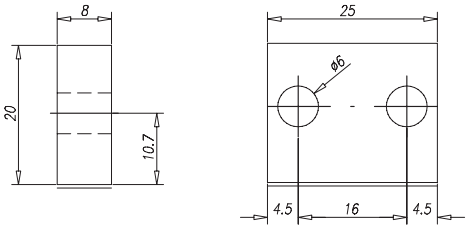

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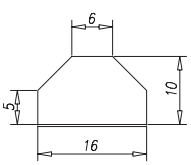

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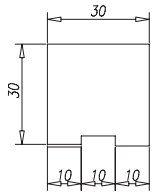

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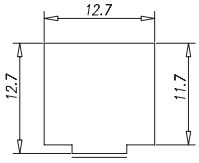

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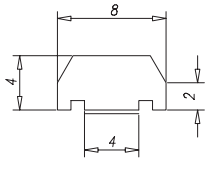

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CLEATS

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

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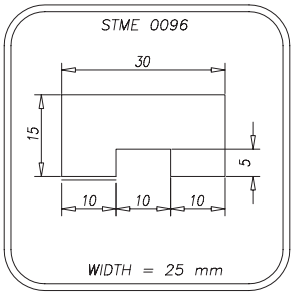

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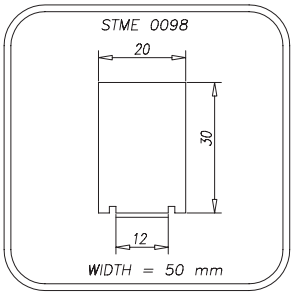
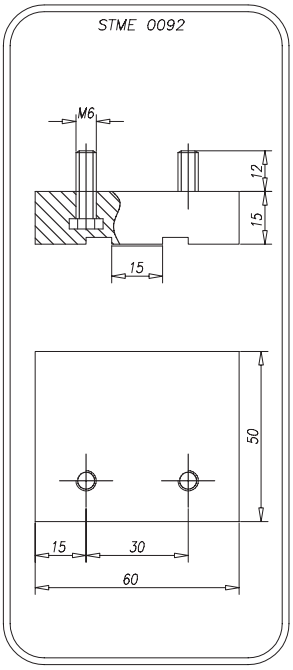


STME 0092



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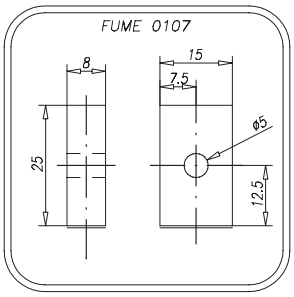

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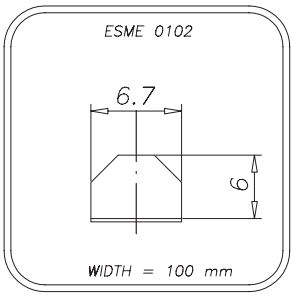

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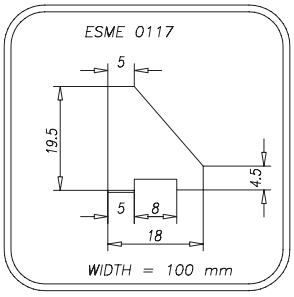

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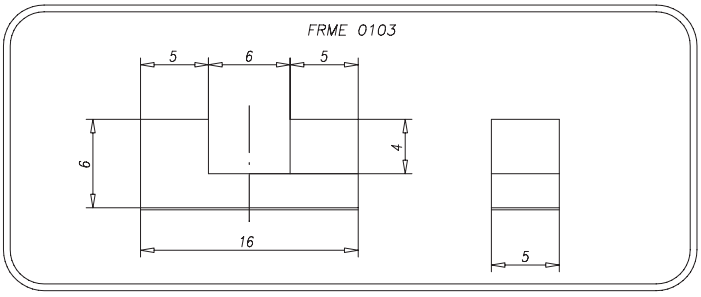

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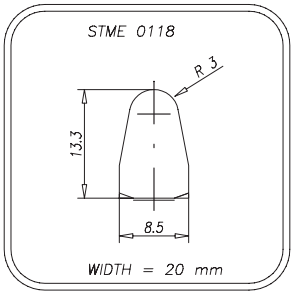

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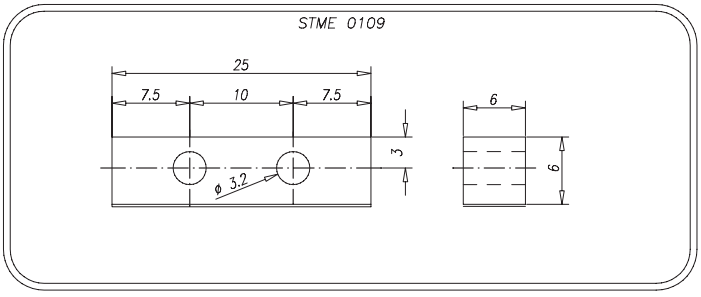

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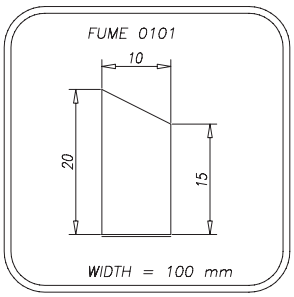

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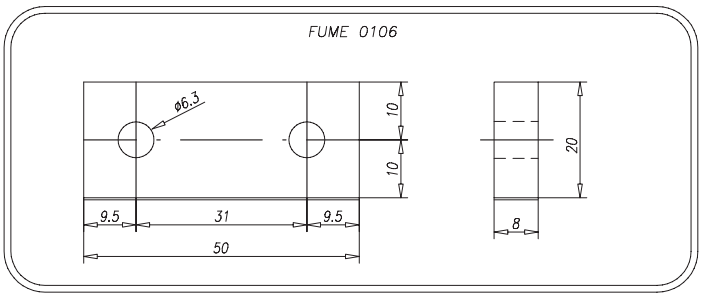
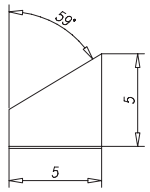


If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

FRME 0110



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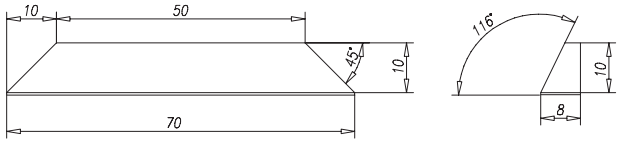

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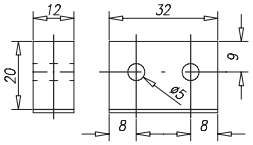
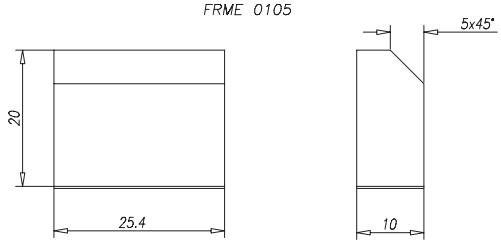


FRME 0105



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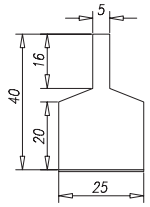
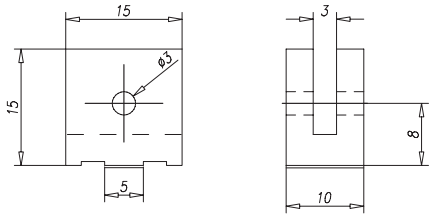
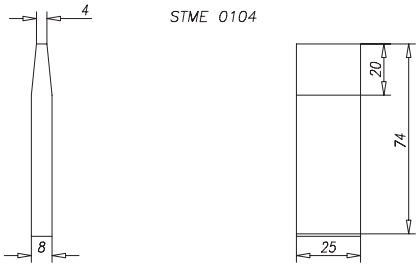


WIDTH = 2 mm

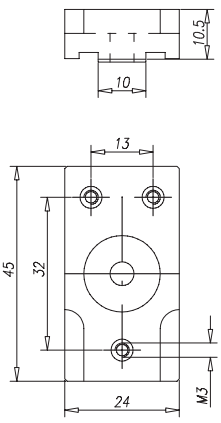
STME 0111



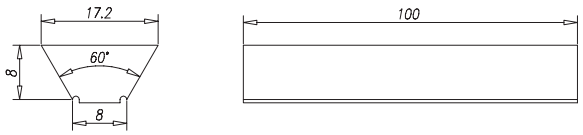
STME 0104



STME 0128



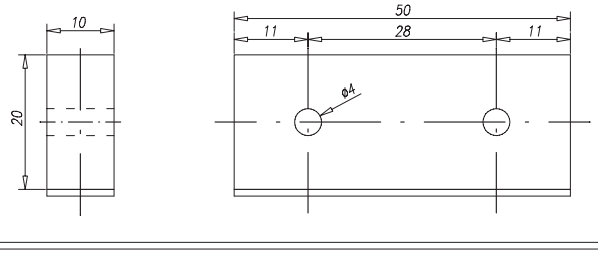
ESME 0123



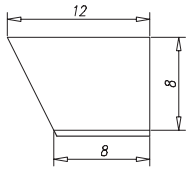
CLEATS

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

FUME 0126

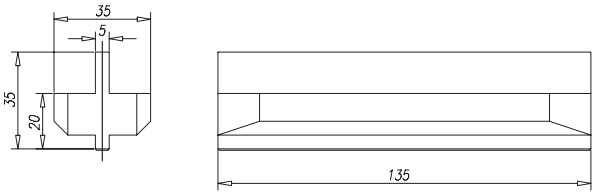


FRME 0130

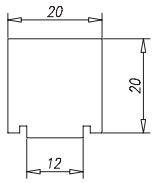


WIDTH = 100 mm

STME 0133

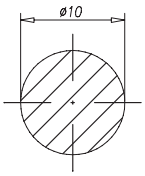


FRME 0129



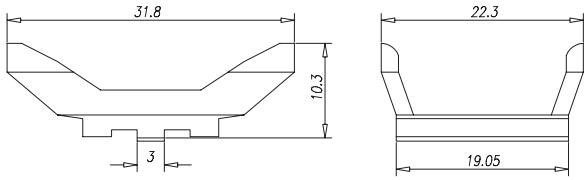
WIDTH = 20 mm

ESME 0132

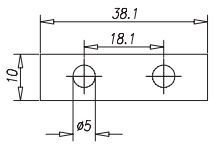


HEIGHT = 100 mm

STME 0135

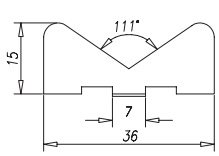


STME 0134



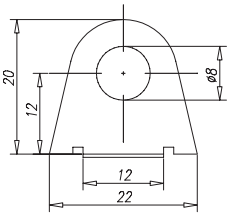
WIDTH = 8 mm

STME 0138



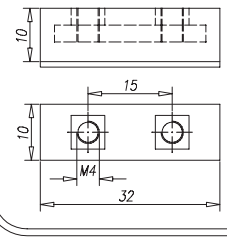
WIDTH = 25 mm

STME 0139

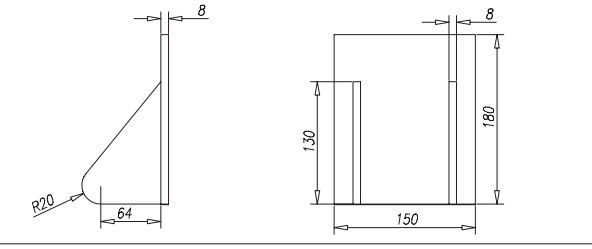


WIDTH = 32 mm

STME 0137

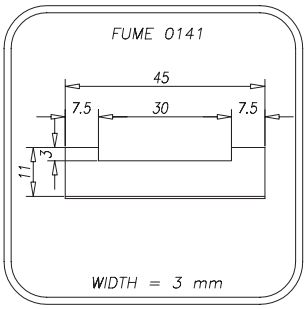


FUME 0140

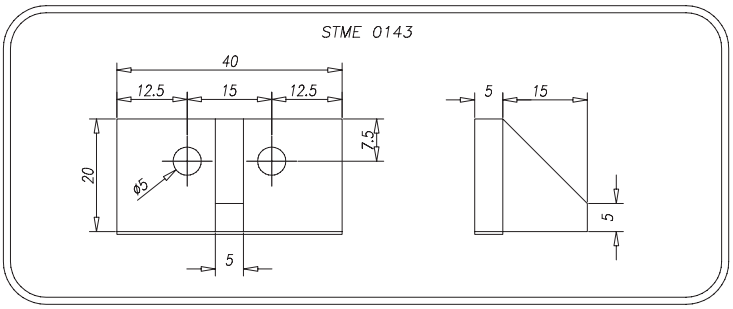


If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

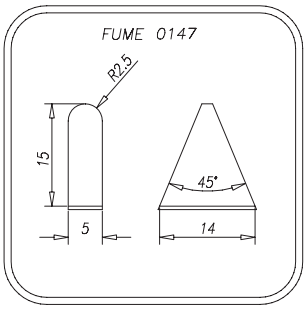
FUME 0141



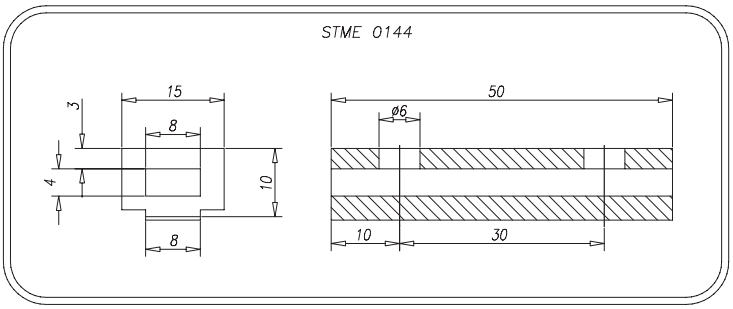
STME 0143



FUME 0147



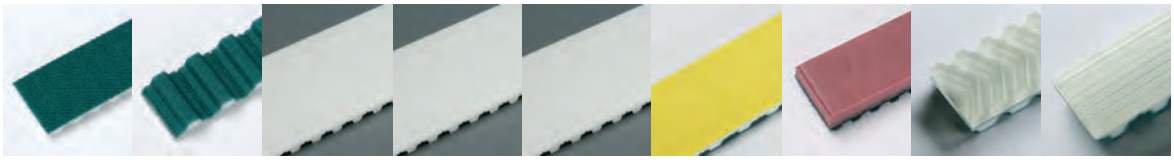
STME 0144



COVER PROPERTIES

Megalinear belt can be coated with several materials. Those coatings are able to suit Megalinear belts to all applications. Main advantages for using coated belts are: reducing noise and modifing friction in conveying materials. Choice of correct coating depends on application field.
Megadyne is able to supply extruded coated belt, in this case coating method is same as belt production method and coehesion between belt and cover is guaranteed by welding without using glue.
Properties of extruded coating are followings:

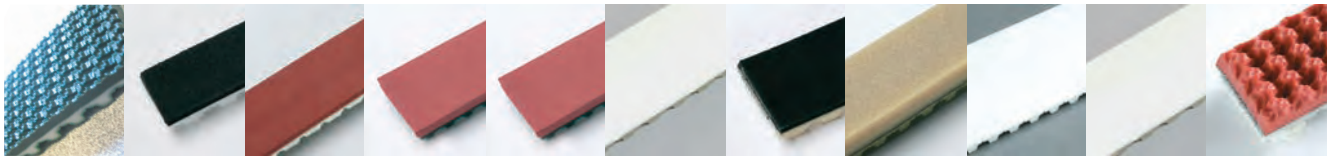
	Cover type								
	NFB nylon fabric back	**NFT nylon fabric teeth**	**AVAFC 60**	**AVAFC 70**	**AVAFC 85**	**Foamed polyure-thane**	**APL**	**Fishbone**	**Ribbed**
Raw material	nylon	nylon	polyurethane	polyurethane	polyurethane	foamed polyurethane	polyurethane/ PVC	polyure-thane	polyure-thane
Hardness (ShA)	–	–	60	70	85	50	55	70	70
Colour	green	green	transparent	transparent	transparent	yellow/grey	red	transparent	transparent
Coating and belt cohesion method	by extrusion	by extrusion	by extrusion	by extrusion	by extrusion	by spray	by extrusion	by extrusion	by extrusion
Thickness range (mm)	–	–	2/3/4	2/3/4	2/3/4	0,5 till 8	3,5	4,3	2,7
Tolerance on coating thick-ness	–	–	+ /– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,5	+/– 0,5
Working tem-perature range (°C)	–20 +80	–20 +80	–20 +80	–20 +80	–20 +80	–20 +60	–20 +60	–20 +80	–20 +80
Friction coefficient (1)	0,25	0,25	0,65	0,65	0,6	0,4	0,7	0,6	0,6
Water resist-ance	good	good	very good	very good	very good	good	good	very good	very good
Abrasion resist-ance	intermediate	intermediate	very good	very good	very good	very good	good	very good	very good
Oil resistance	intermediate	intermediate	good	good	good	very good	good	very good	very good
FDA approved	no	no	no	no	no	no	no	no	no
Min. pulley dia = thickness • ... (2)	std pulley	std pulley	x 40	x 40	x 40	x 25	x 30	x 30	x 35



(1) Static Average values for steel guides
(2) Suggested diameter is bigger value between this calculated value and minimum pulley diameter on belt data page

Megalinear belt can be supplied also with vulcanised or glued cover. Their technical properties are listed in following table:

Cover type										
PVC Supergrip	**Porol mousse**	**Linatex**	**Tenax 40**	**Tenax Standard**	**White Rubber for food industry**	**Neoprene**	**Gummy Cor-rex ambra parablond**	**NBR**	**Hypalon**	**Honeycomb**
PVC	open cell neoprene rubber	natural rubber	natural rubber	natural rubber	synthetic rubber	synthetic rubber	natural rubber	nitrilic rubber	rubber	natural rubber
55	10	42	40	45	70	70	48	70	60	50
green	black	red	red	red	white	gray/black	light/ brown	white	white	red
by extru-sion	by gluing	by gluing	by vulcanization	by vulcaniza-tion	by vulcanization	by vulcaniza-tion	by vulcaniza-tion	by vulcanization	by vulcanization	by gluing
4,5	2 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	4,5 till 15
+/– 0,5	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,3	+/– 0,5
– 20 +60	–10 +60	–20 +50	–20 +60	–20 +60	0 +120	–10 +100	–20 +60	0 +120	0 +160	–20 +60
0,6	0,7	0,75	0,75	0,7	0,65	0,6	0,6	0,6	0,6	0,6
good	good	very good	very good	very good	good	very good	very good	good	good	very good
good	intermediate	very good	very good	very good	intermediate	good	very good	intermediate	intermediate	very good
good	intermediate	low	low	low	good	good	low	good	good	low
no	no	no	no	no	no	no	no	no	no	no
x 30	x 25	x 30	x 30	x 30	x 35	x 35	x 30	x 35	x 35	x 30



SPECIAL EXECUTION FEASIBILITY

Megadyne can make special extrusion on customer request to improve belt properties and to suit better to special applications.

SPECIAL POLYURETHANE

On customer request and with minimum quantity, Megalinear belt can be produced with different hardness:
- 85 ShA food quality polyurethane for contact with food and medical products
- 92 ShA higher resistance to temperature
- 92 ShA silicon free for painting system based on water
- 95 ShA glass reinforced
- 98 ShA extra hard polyurethane

COLOUR

On customer request and with a minimum quantity is possible to produce megalinear with several colours.
Different colour doesn't influence belt technical properties so mechanical features are same as standard white belt.
Available colours are: • White • Black • Blue • Yellow • Transparent

SPECIAL EXTRUSION

On customer request, Megadyne R&D department can develop special extruded belts by designing special mould.
It is also possible to extrude standard belt with special cords position, ready for successive reworkings.

MECHANICAL REWORK

Megadyne have been producing specialized belting for many years. Our in-house facilities enable us to produce belt with special holes for vacuum conveyors, belts with special backings / ground finishes for high tolerance applications. We can remove individual teeth and perforate the timing belt as required.

BACK GRINDING

A belt back can be ground to achieve a precise belt thickness as an adjunct to precision drives. When belt back grinding to a tolerance is required, the total thickness, including the tooth, must be specified. A grinding tolerance of +/– 0.2 mm is achievable with a level finish (i.e. thickness will not vary greatly around the belt). Most widths and lengths are available.

LONGITUDINAL REWORK

Longitudinal rework along the belt back is possible on covered and uncovered belts. The profile can be machined precisely for required function. The measurement is given as the depth on the belt back. Most widths and lenghts are available.

REWORK ON BELT TEETH

The rework of the tooth profile can be very useful, i.e. improving the steering effect with guide rails. The rework dimension is given from the top of the tooth. Most belt widths and lengths are available.

HOLES IN TIMING BELTS

Holes in timing belts can be for vacuum or air film conveying or as clearance for assembly mechanisms. Stops and cams can be attached through the holes. Customized tooling may be required depending on the layout and dimensions of holes required.

SINGLE TOOTH REMOVAL

Single and multiple tooth removal is available to your requirement, for applications in handling and conveying technology.

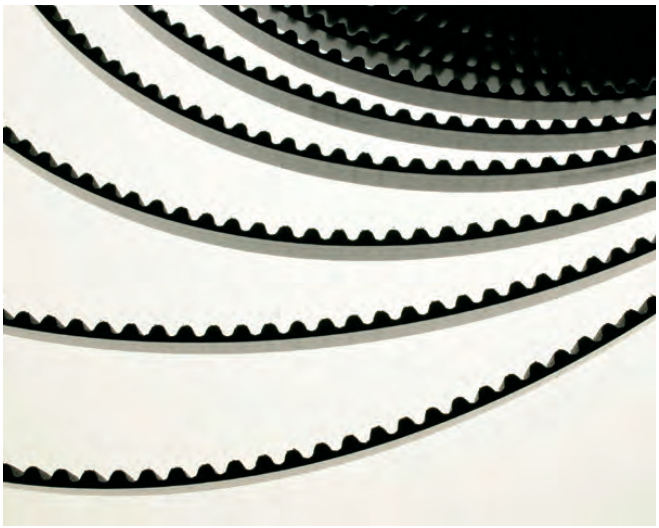
CERTIFIED BELTS FOR DIRECT FOOD CONTACT (MEGALINEAR FCM)

On customer request and with minimum quantity, it is possible to produce Megalinear belts
approved and certified for direct contact with dry and wet food according to EC 10/2011 and EC 1934/2004 regulations, and limited to the following configuration:

- 92 +- 4 ShA special grade polyurethane, sky blue colour (RAL 5012 reference)
- Stainless steel cord insert only
- NFT\NFB fabric and covers options NOT available
- Available profiles T5-T10-T20-AT5-AT10-AT20-H-STD8-ATG10

ANTISTATIC POLYURETHANE TIMING BELTS

Megadyne now offers antistatic belts. Under certain conditions, a polyurethane belt may build-up a significant static electric charge. For applications where belts are intended for operation in a potentially explosive atmosphere or near electrical components, polyurethane belts should be sufficiently conductive to dissipate this electrical charge. Belts can be constructed (using proper nylon fabric coating) with a relatively low electrical resistance characteristic and are typically referred to as “static conductive” surface or “antistatic” surface. The test methods for determining the surface resistive properties of a belt are based on ISO 9563, “Belt Drives - Electrical Conductivity of Anti-static Endless Synchronous Belts - Characteristics and Test Method”. To be antistatic the electrical resistance, in ohms, of a belt measured in accordance with test method of norm ISO 9563, should not exceed:



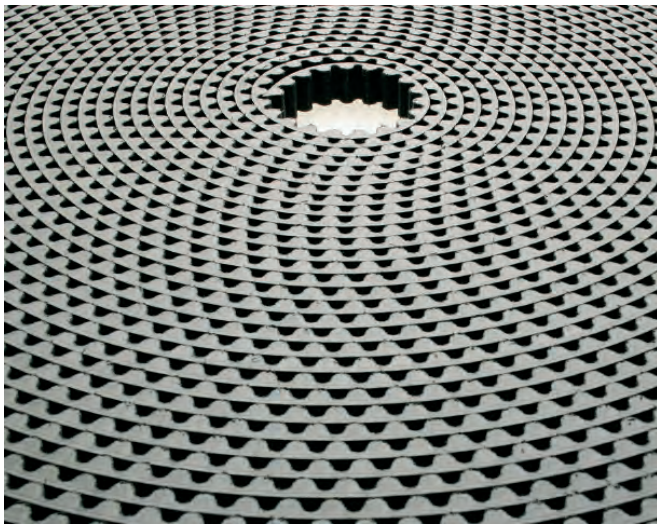
$$\text{Resistance} = \Omega = \frac{(6 \bullet 10^5) \bullet L}{W}$$

where: L = is dry distance between electrodes (7 grooves, 6 teeth between contacts)
W = is the width of the belt

L and W are expressed in the same units (mm or inches).

Megadyne antistatic belts are produced with black polyurethane as standard.

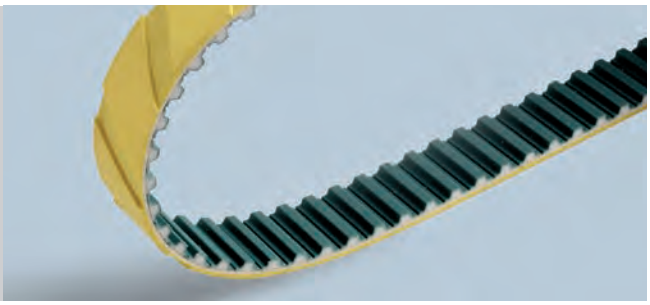
TYPICAL APPLICATIONS



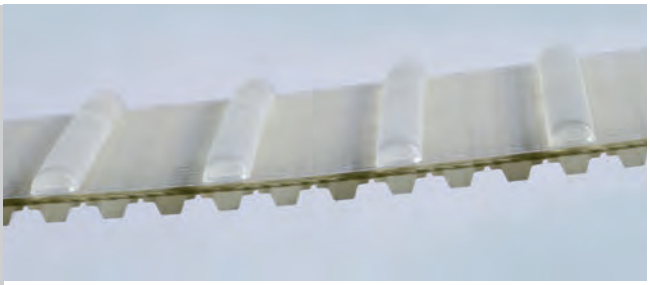
- Conveyance of PC boards or other electronic assemblies
- Semiconductor processing
- Conveying munitions of explosive detonators
- Paper conveying
- Power transmission applications in textile industries
- Chemical environment power transmission or convenying
- Clean room conveyors and power transmissions

SPECIAL EXECUTION PHOTOS

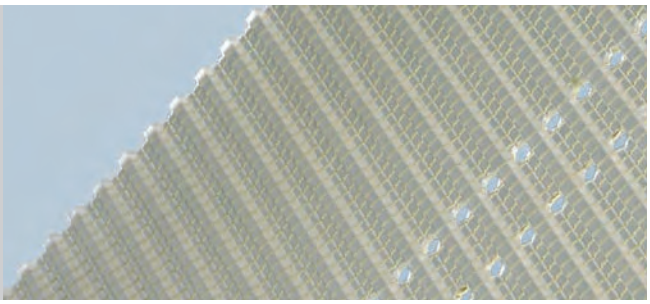
Glass Industry
Coating and special grinding on the back
allow Megadyne belt to be suitable
to all customer applications



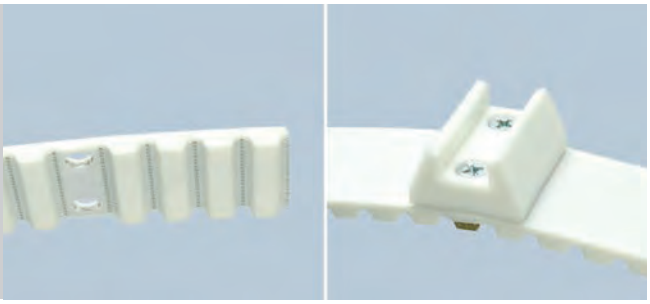
Tobacco industry
Belt with special cleats
for tobacco industry



Nappy industry
Wide extruded belt
for nappy industry



Packaging industry
Special reworking
to install custom made elements



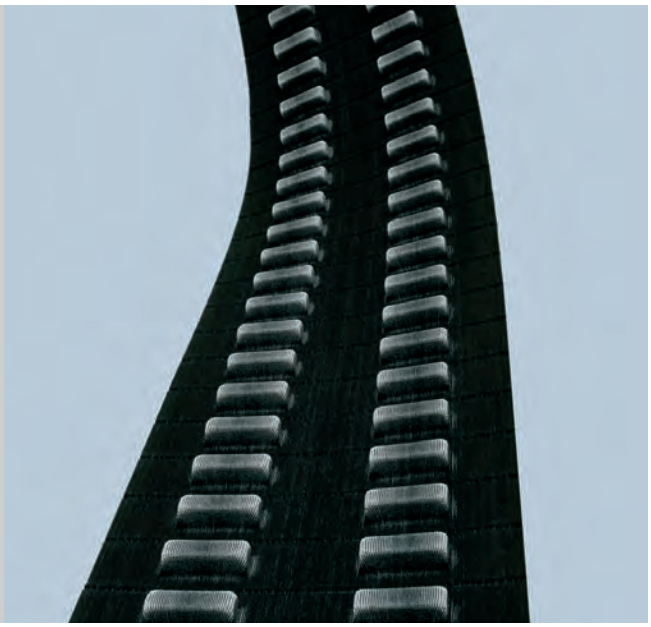
Automotive industry
Belt suitable to convey steel coils
and plates due to guides
on the back

Paper industry
Special extruded belt
for vacuum conveyor application
in paper industry

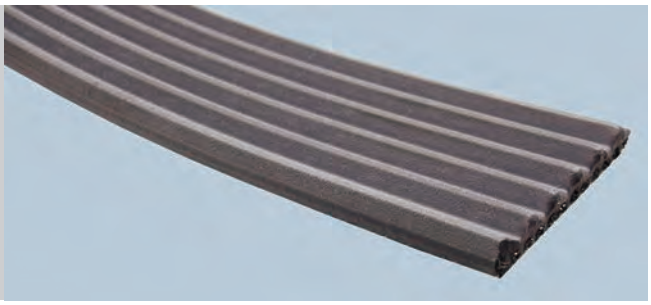
Carton Industry
New extruded belt
for vacuum application
in carton conveyor industry

Conveyor application
Special coating for conveyor application

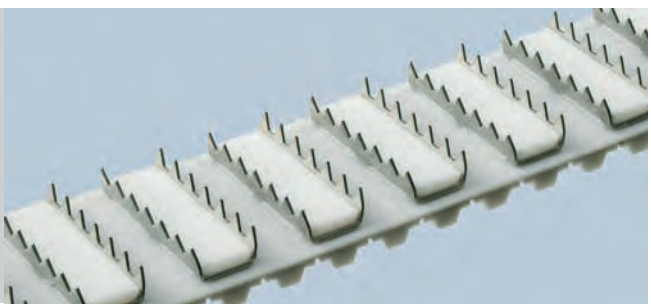
Automotive industry
Due to its antistatic properties,
belt suitable for steel plate conveyor
in car industry



Lift industry
Patented belt
designed on customer requirement
for an innovative lift system



Fish industry
High variety of cleats allow
Megalinear belts to work
in several fields



DATA SHEET

CUSTOMER DATA

Date ____/_____/_____

Company Name _____

Address _____ Zip Code _____

City _____ State _____ Country _____

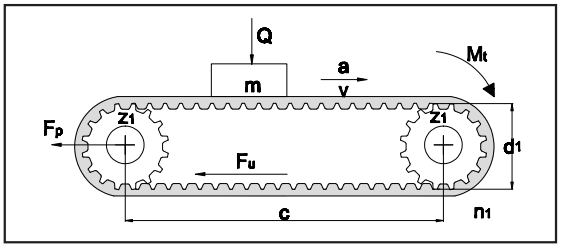
Customer Name/Surname _____

Office_____ Tel. _____ Fax _____

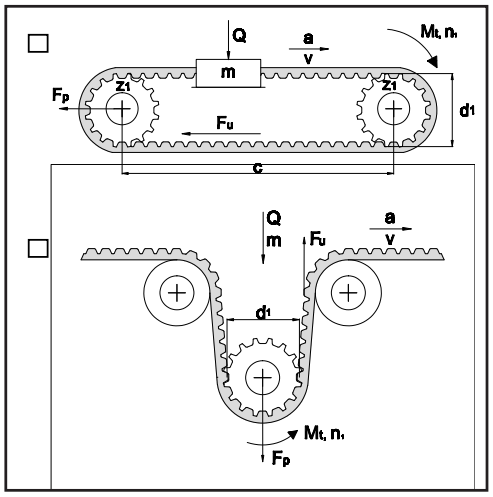
e-mail _____

DRIVE INFORMATION
TRANSMISSION LAYOUT

☐ **Conveyor**



☐ **Linear motion (choose between the layout below)**



☐ **Other (If layout is different please sketch it below)**

DRIVE INFORMATION (FOR CONVEYOR)

APPLICATION:

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: _____

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

DRIVE INFORMATION (FOR LINEAR MOTION)

APPLICATION:

Driver pulley 's diameter: _____
Driven pulley's diameter: _____
Idler diameter: _____
Center distance : _____
Minimum safety factor needed:_____
Are there any size limitation? ☐ Yes ☐ No
(if yes please indicate) :
Max diameter: _____
Max width: _____
Max center distance: _____

Linear speed: _____
__
Acceleration: _____
Mass: _____
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:
_____

NOTE:

Send us this form to:
Fax: +39 011-9268487
Adress: MEGADYNE SPA - Via trieste 16, 10075, Mathy, ITALY
or by e-mail: info@megadynegroup.com

Signature:_____

DATA SHEET

CUSTOMER DATA

Date ____/_____/_____

Company Name _____

Address _____ Zip Code _____

City _____ State _____ Country _____

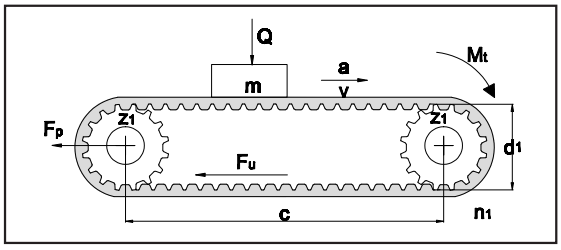
Customer Name/Surname _____

Office_____ Tel. _____ Fax _____

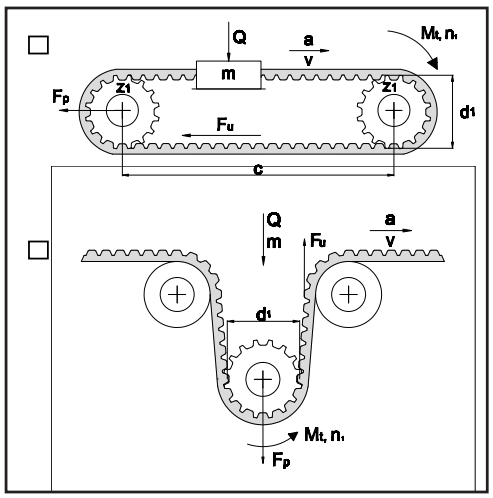
e-mail _____

DRIVE INFORMATION
TRANSMISSION LAYOUT

☐ **Conveyor**



☐ **Linear motion (choose between the layout below)**



☐ **Other (If layout is different please sketch it below)**

DRIVE INFORMATION (FOR CONVEYOR)

APPLICATION:

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: _____
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

DRIVE INFORMATION (FOR LINEAR MOTION)

APPLICATION:

Driver pulley 's diameter: _____
Driven pulley's diameter: _____
Idler diameter: _____
Center distance : _____
Minimum safety factor needed:_____
Are there any size limitation? ☐ Yes ☐ No
(if yes please indicate) :
Max diameter: _____
Max width: _____
Max center distance: _____

Linear speed: _____
__
Acceleration: _____
Mass: _____
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:

_____

NOTE:

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or by e-mail: info@megadynegroup.com

Signature:_____

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Technical specifications, performances and other information provided in the present catalogue are indicative and do not bound Megadyne 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 in our web site www.megadynegroup.com:
- Megadyne 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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