



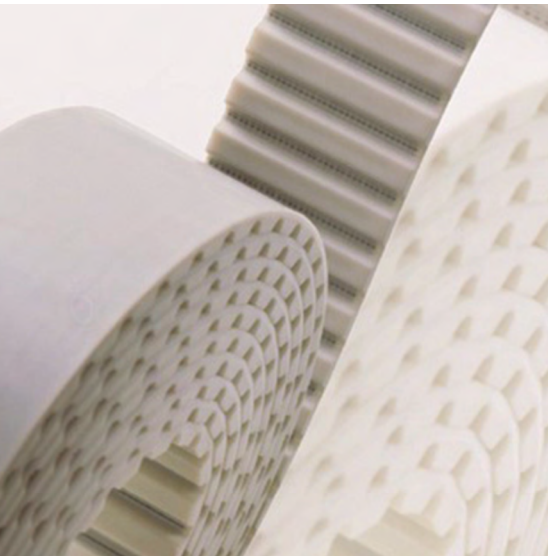
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MEGALINEAR

TECHNICAL
HANDBOOK

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INTRODUCTION

TO OPEN-ENDED 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, which gives superior wear and abrasion resistance. Various types of steel cords, 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-ended belts are particularly suited where the key requirements are the most precise accuracy of position, low noise, and long maintenance-free cycles.

MEGADYNE HAS EXPANDED THE MEGALINEAR RANGE TO INCLUDE:

- MEGALINEAR QST
- MEGALINEAR GW
- MEGALINEAR FC - FC-S - FCM
- MEGALINEAR MegaEco Biobased
- MEGALINEAR MEGAC4T™

MEGALINEAR QST

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.

MEGALINEAR GW

Megadyne introduced the MEGALINEAR GW, a high-performance thermoplastic polyurethane belt for heavier applications. Superior load capacities can be achieved thanks 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

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 the European regulations EU 1935/2004, EU 10/2011, and EU 174/2015. It's manufactured in T5/T10 pitches without nose gap between the teeth, and is 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, and are certified for wet and dry food contact. The homogenous belt design ensures a significantly greater service life, with a high level of hygienic integrity.

MEGALINEAR FC-S

MEGALINEAR FC-S completes the Megadyne product portfolio for food processing, packaging, pharmaceutical and medical, and washdown power transmission applications where dimension stability, accurate movement, a superior level of food safety, and food contact certifications are required.

MEGALINEAR FCM

On request and with minimum quantity, it's possible to produce MEGALINEAR FCM made in sky-blue colour (RAL 5012), and certified for direct contact with dry and wet food.

Both MEGALINEAR FC and FCM can be made with a special Metal and X-ray detectable compound. MEGALINEAR XMD decreases the risk of contamination from belt fragments protecting Consumer Safety.



INTRODUCTION

TO OPEN-ENDED BELTS

MEGAC4T

MEGALINEAR Adaptable Cleats For Transport - is the most versatile belt ever!

Its design with quick and easy interchangeable profiles means you can use the same belt for a wide variety of applications, transporting goods of different shapes on a single transport system with a minimum of downtime!

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

- 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
- Food industry

MEGALINEAR MEGAECO BIOBASED

MEGALINEAR MegaEco Biobased is part of the Megadyne MegaEco range, the sustainable belt solution for power transmission systems. Made with polymer coming partially from vegetable sources, this "eco-friendly" belt can support companies in reducing their CO₂ footprint.

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

STANDARD RANGE



MXL • XL • L • H • XH



T2,5 • T5 • TT5 • T10 • T20



AT3 • AT5 • AT10 • MEGAC4TTM AT10 • AT20



MTD3 • MTD5 • MTD8 • MTD14 • MTD14 XHP2



RPP5 • RPP8 • RPP14 • RPP14XHP2



STD5 • STD8



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



QST5 • QST8 • QST14

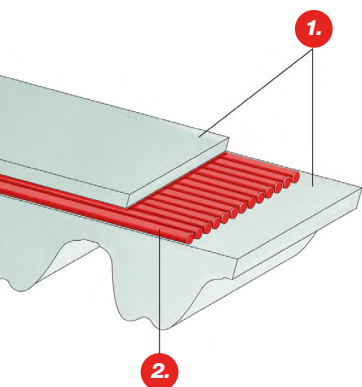


GW14 • GW20



P1 • P2 • P3 • P4

MEGALINEAR



CLASSIFICATIONS

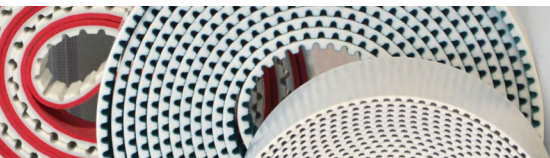
CLASSIFICATIONS

MEGALINEAR timing belts are manufactured in thermoplastic polyurethane, with single parallel steel cords. These types of belt, 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 thanks 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
- Low pretension
- Noiseless
- Constant length
- Free maintenance
- High-abrasion resistance
- High flexibility
- Ageing, hydrolysis, ozone resistant
- High-resistance steel traction cords, with little stretching and top flexibility
- Working temperature -25 °C / +80 °C
- High resistance to oils, greases, and gasoline
- Linear speeds up to 20 m/s
- Fairly Acid-proof and Alkali-proof constant dimensions



CLASSIFICATIONS

MECHANICAL AND CHEMICAL CHARACTERISTICS

BODY

MEGALINEAR belts are manufactured with white thermoplastic polyurethane 92 ShA as standard.

Special compounds (different hardness, special properties) are available on request. Special compounds and cords must be tested and homologated on the application. Megadyne is not responsible for the wrong functioning of special products.

Here under some PU characteristics:

WATER

No problem in normal or sea clean water at room temperature. Over 60 °C, 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 °C, 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 °C, alkalis are always dangerous for thermoplastic PU.

SOLVENTS

Thermoplastic PU is insoluble in the greater part of solvents. Only the very polar solvents (such as tetrahydrofuran, dimethylformamide, n-methylpyrrolidone) can dissolve or tight damage PU. The esters or the ketones (such as ethyl acetate or methylethylketene) can usually produce a bulge, decreasing mechanical characteristics. The hydrocarbons aromatic, and the hydrocarbons aliphatic produce very high bulges. All the effects increase with increasing temperature.

OILS

PU has a high resistance to mineral pure oils (lubricants, engine oils, combustible oils). Usually, high-performance synthetic oils, due to special additives contained, can be incompatible with thermoplastic PU, especially at high temperatures.

GREASES

PU has a high resistance to mineral pure greases (lubricants greases). Usually, high-performance synthetic greases, due to special additives contained, can be incompatible with thermoplastic PU, especially at high temperatures.

FUELS

Good resistance to Petrol without alcohol. In the presence of alcohol, thermoplastic PU can suffer deterioration. Fuels, including aromatic stuff, can produce reversible bulges.



CLASSIFICATIONS

MECHANICAL AND CHEMICAL CHARACTERISTICS

MICROORGANISMS

In the presence of grime, containing humidity, Microorganisms can develop. In the case a 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 has no 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 environments must be avoided

Kevlar® cord belts have a lower dimensional stability compared to steel cord belts. Length and tolerance 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 pulleys 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 than 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.



CLASSIFICATIONS

COATING

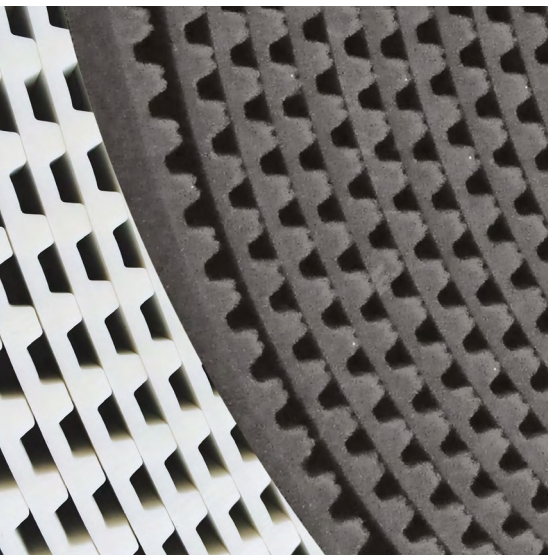
MEGALINEAR can be manufactured with special coating on the teeth or on the back. Please check on page 134 and 135.

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:

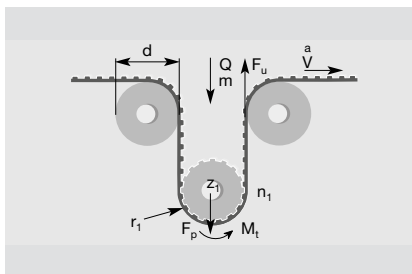
1		2		3		4		5		6
J	+	50	+	AT	+	10	+	10000	+	SPECIAL MANUFACTURES

1	J	Joined belt.
	ML	MEGALINEAR open-ended belt.
2	50	This number indicates the width of the 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 of letters indicates the selection of the 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 such as Kevlar®, or HP, or HF, or HPF, or stainless steel
		Special compounds 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.

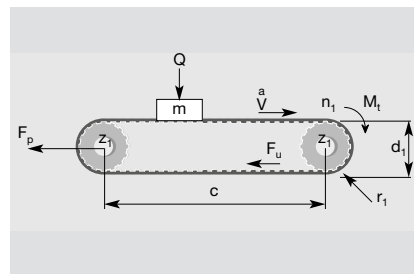


TECHNICAL CALCULATION

OMEGA LINEAR MOTION BELT



LINEAR MOTION AND CONVEYOR BELT



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

SYMBOL	UNIT	DEFINITION	SYMBOL	UNIT	DEFINITION
a	m/s ²	ACCELERATION	g	m/s ²	GRAVITY (9,81)
b	mm	BELT WIDTH	μ	–	FRICTION COEFFICIENT
C	–	SAFETY FACTOR	m	Kg	CONVEYED MASS
Δl/oo	‰	ELONGATION	M_t	Nm	DRIVE TORQUE
d	mm	IDLER PITCH DIAMETERS	n₁	1/min	REVS/MIN (RPM) OF DRIVE SPROCKET 1
d₁	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 the maximum acceptable traction on cords.
 Breaking strength is the necessary load to break belt cords.
 Elongation is belt elongation under load.

USEFUL FORMULAS AND CONVERSION FACTORS

$$\begin{aligned}
 V &= \frac{d_1 \cdot n_1}{19100} & n_1 &= \frac{V \cdot 19100}{d_1} & d_1 &= \frac{V \cdot 19100}{n_1} & Q &= m \cdot g \\
 P &= \frac{M_t \cdot n_1}{9550} & M_t &= \frac{9550 \cdot P}{n_1} & M_t &= \frac{F_u \cdot d_1}{2000}
 \end{aligned}$$



TECHNICAL CALCULATION

CHOICE OF BELT PITCH AND SPROCKETS

For optimum belt pitch see tables on page 12.

For optimum choice of sprocket size, it is desirable to have as near to 12 teeth in the mesh as possible.

Knowing mass	For horizontal & conveying drives (Note: values of μ can be found in table 3 on page 13)	$F_u = (m \cdot a) + (m \cdot g \cdot \mu)$
	For vertical drives	$F_u = (m \cdot a) + (m \cdot g)$
Knowing drive torque	-	$F_u = 2000 \text{ Mt} / d_1$
Knowing drive power	-	$F_u = 19.1 \cdot 10^6 \cdot P / (d_1 \cdot n_1)$

BELT WIDTH AND PROFILE ESTIMATION

The belt width b should be calculated using the following formula:

$b = (F_u \cdot c_s \cdot 10) / (F_{p \text{ spec}} \cdot Z_m)$	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	$[0.5 - \frac{4 \cdot p}{79 \cdot c} (Z_L - Z_g)] \cdot Z_s$
	F_{p spec}	(if calculated $Z_m > = 12$ for an OPEN-ENDED application use $Z_m = 12$) (if calculated $Z_m > = 6$ for a joined application use $Z_m = 6$) transmittable force per tooth per unit width (see table on belt data pages)

PRE-TENSIONING

The suggested installation tension:

F_p	$2 \cdot F_u$ 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):

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

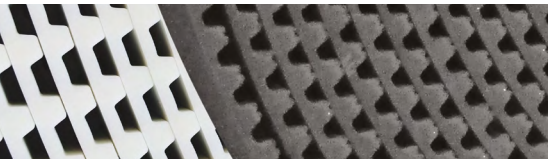
SPROCKET AND IDLER DIAMETER CHECK

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

ELONGATION

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

$$\Delta l / l_0 = (F_u \cdot 4) / \text{max traction load}$$



LINEAR MOTION

CALCULATION EXAMPLE (OPEN-ENDED BELT)

CHOICE OF THE BELT PITCH AND SPROCKETS

According to the belt pitch selection table n.1 on page 12, considering the values of P and n₁, we select RPP8 belt.

Then, we consider the pulley's diameter nearest to the requested value and the corresponding n. of teeth (see technical information on page 79).

Therefore Z₁ = 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

$b = \frac{F_u \cdot C_s \cdot 10}{F_{p \text{ spec}} \cdot Z_m}$	F_u	from before (1500 N)
	C_s	from page 13 table 4, for low fluctuating load C _s = 1,4
$b = \frac{1500 \cdot 1,4 \cdot 10}{62 \cdot 12} = 28,2 \text{ mm}$	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
	n₁	300 RPM (given)
	F_{p spec}	62N / cm (refer page 78 at 300 RPM)

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

PRE-TENSIONING

$$F_p = 2 \cdot F_u$$

$$F_p = 3000 \text{ N}$$

CORD CHECK

From page 78, RPP8 pitch 30 mm wide: max traction load 4750 N

$$\text{max traction load} > \frac{F_p}{2} + (F_u \cdot C_g)$$

$$\frac{F_p}{2} + (F_u \cdot C_g) = 1500 + 1500 \cdot 1,4$$

4750 N > 3600 N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Ensure that all selected pulley and idler's diameters are greater than, or equal, to the minimum values specified on page 79.

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)

CHOICE OF BELT PITCH AND SPROCKETS

According to the belt selection table n. 2 on page 12, 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's diameter nearest to the requested value and the corresponding n. of teeth (see technical information on page 41). Therefore, $Z_1 = 32$ teeth (with a pitch diameter of 101,86 mm).

CALCULATION OF THE EFFECTIVE TENSION

Since the mass is known, F_u can be calculated:

$$F_u = (m \cdot a) + (m \cdot g \cdot \mu) \quad | \text{ value of } \mu \text{ according to table 3 on page 13} = 0,35$$

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

$$m = Q/g = 4500 / 9,81 = 460 \text{ kg}$$

DETERMINATION OF THE BELT WIDTH

$b = \frac{F_u \cdot C_s \cdot 10}{F_{p \text{ spec}} \cdot Z_m}$	F_u	from before (1810 N)
	C_s	from page 13 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 is 6, then $Z_m = 6$
$b = \frac{1810 \cdot 1,4 \cdot 10}{45 \cdot 6} = 93,85 \text{ mm}$		
	n_1	$(V_p \cdot 60.000) / (\pi \cdot d_1) = (0,5 \cdot 60.000) / (\pi \cdot 101,86)$ as $d_1 = 101,86$ from before = 94 RPM
	$F_{p \text{ spec}}$	45 N / cm (refer page 40, at 100 RPM)

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

PRE-TENSIONING

$$F_p = F_u$$

$$F_p = 1810 \text{ N}$$

CORD CHECK

From page 40, T10 pitch 100 mm wide joined: max traction load 5415 N

$$\text{max traction load} > F_p + (F_u \cdot C_s)$$

$$F_p + (F_u \cdot C_s) = 1810 + (1810 \cdot 1,4)$$

5415 N > 4344 N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Checking technical data on page 41 for pulley and idlers, it can be seen that the drive has acceptable pulley diameters.

ELONGATION

$$\Delta L_{100} = \frac{F_u \cdot 4}{\text{max traction load}} = \frac{1810 \cdot 4}{5415} = 1,33 \text{ mm/m}$$

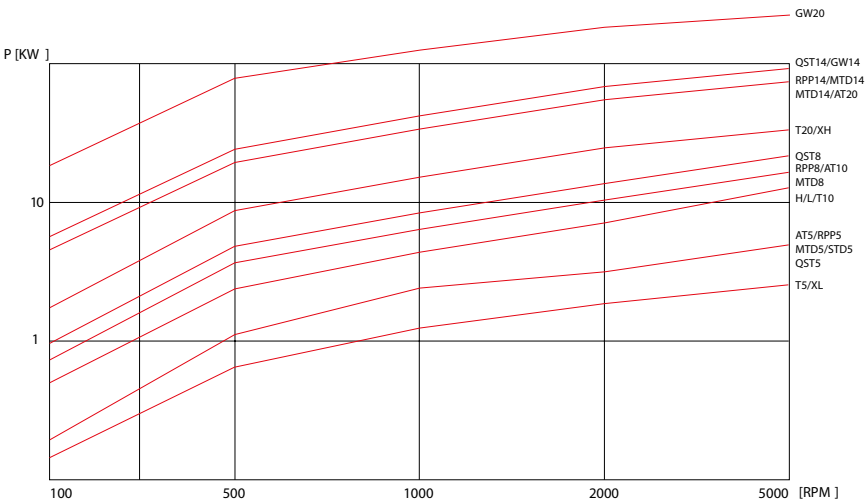
In dynamic situation, you will have an elongation of 1,33 mm per meter of operating belt.



CALCULATION PARAMETERS

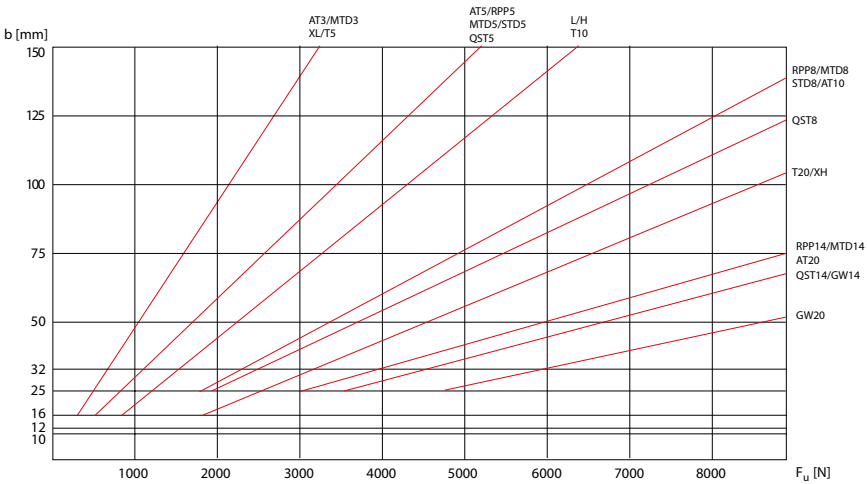
BELT PITCH SELECTION

TABLE 1



BELT WIDTH SELECTION

TABLE 2



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



CALCULATION PARAMETERS

TABLE 3 - FRICTION COEFFICIENT

Sliding friction on a dry surface	polyurethane / smooth steel	$\mu = 0,5$
	polyurethane / rough steel	$\mu = 0,7$
	polyurethane / abrasive steel	$\mu = 0,9$
	polyurethane NFT / smooth steel	$\mu = 0,25$
	polyurethane NFT / rough steel	$\mu = 0,35$
	polyurethane NFT / abrasive steel	$\mu = 0,6$
	polyurethane / nylon	$\mu = 0,35$
	polyurethane NFT / nylon	$\mu = 0,15$
	polyurethane / aluminium	$\mu = 0,8$
Rolling friction on a dry surface	polyurethane NFT / aluminium	$\mu = 0,45$
	Bearing	$\mu = 0,015$
	Roller / PU Belt	$\mu = 0,03 / 0,06$
	Bush	$\mu = 0,15$

The choice of the Safety factor's depends on the operating conditions.

The following table shows the value to be used:

TABLE 4 - SAFETY FACTOR

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
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 flight, apron bucket, elevator, screw	1,8
Brick machinery		1,8



SKETCH KEYS

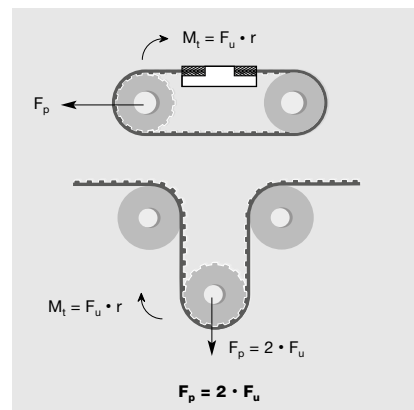
- F_p =pretension
- F_u =peripheral force
(see calculation page 10/11)
- r =pulley radius

BELT INSTALLATION

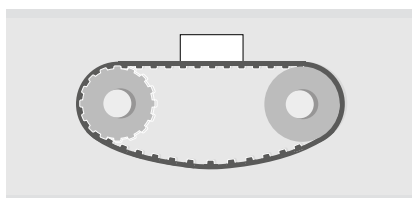
A major difficulty installing transmission belts is to achieve the correct belt tension. The lifetime of support bearings and transmission belts and, therefore, the reliability of the complete system largely depends on an optimally adjusted belt tension.

Pretension is the force needed to put tension into the system to avoid the belt jumping on the pulleys as in the example in sketch A.

For a correct system installation, all applications with MEGALINEAR belts can be summarised according to sketches B and C.

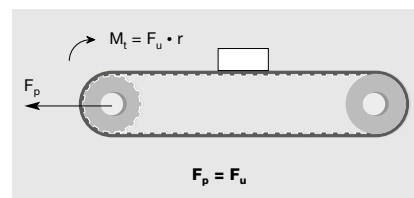


Linear and omega motion belt. Sketch B



Not correct belt installation.

Sketch A



Conveyor belt. Sketch C

PROCEDURE TO MEASURE

The procedure to measure the tension of the belt is to use a Belt Tension Gauging Equipment. This device consists of a small sensing head which is held across the belt to be measured. The belt is then tapped to induce it 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)

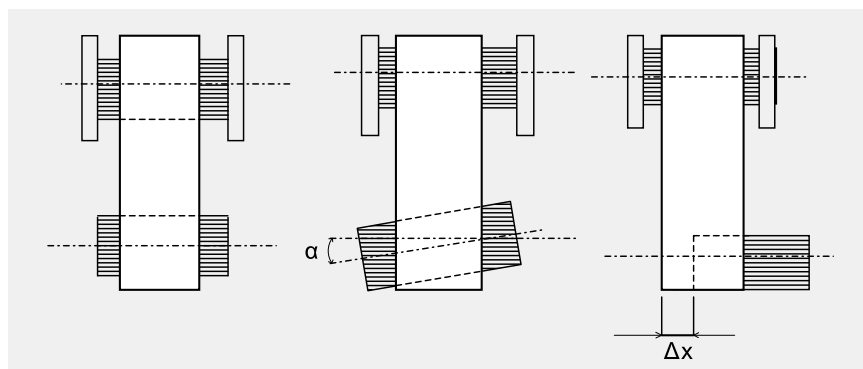


BELT INSTALLATION

For a correct system functioning and to increase belt life, a correct pulley installation is necessary: pulleys must be parallel, and aligned as shown in drawing 1 (correct configuration).

If pulleys are not parallel, as in drawing 2, the belt could fall during functioning; this can provoke damage to the complete equipment.

To grant a correct belt running, α and Δx must be as small as possible. For more information, please contact our technical staff.



Drawing 1

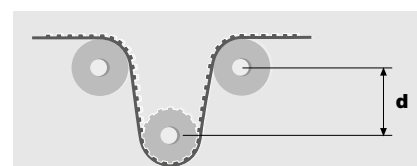
Drawing 2

Drawing 3

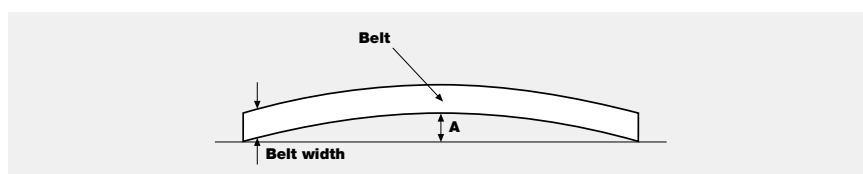
In omega application, to grant good mesh between the pulleys. the teeth, and to respect belt flexibility avoiding excessive stress on cords, distance d (as Drawing 4) has to be:

$$d = 4 \cdot \text{belt width}$$

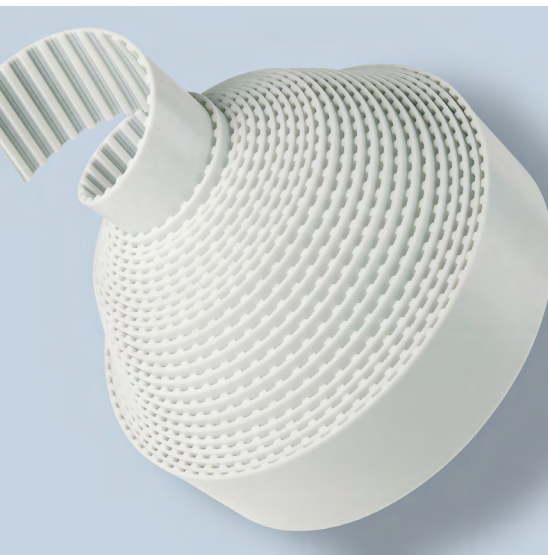
Suggested angle 120°



Moreover, for good drive work, it is suggested to check belt straightness 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



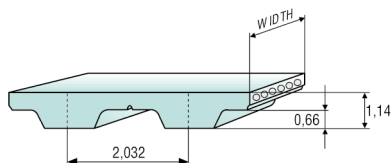
MEGALINEAR

MXL OPEN-ENDED

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 a minimum quantity:	Antistatic compound

TOOTH PROFILE ACCORDING TO ISO 5296-1



TOOTH RESISTANCE

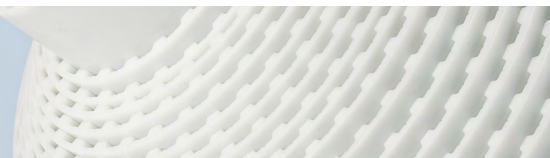
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000
F _{p spec} (N/cm)	7,3	7	6,8	6,7	6,6	6,4	5,9	5,7	5,4	5,2	4,9	4,6	4,2	4	3,6	3,25

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

TRACTION RESISTANCE

CORD MATERIAL	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

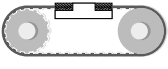
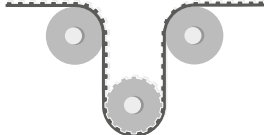
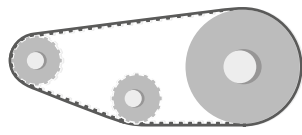
Average values



MEGALINEAR

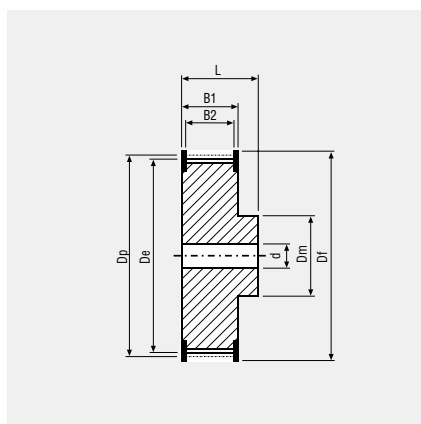
MXL OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN}	Z_{MIN}
		IDLER MIN DIA (mm)	IDLER MIN DIA (mm)
Kevlar® cords	12	15	12
		30	20

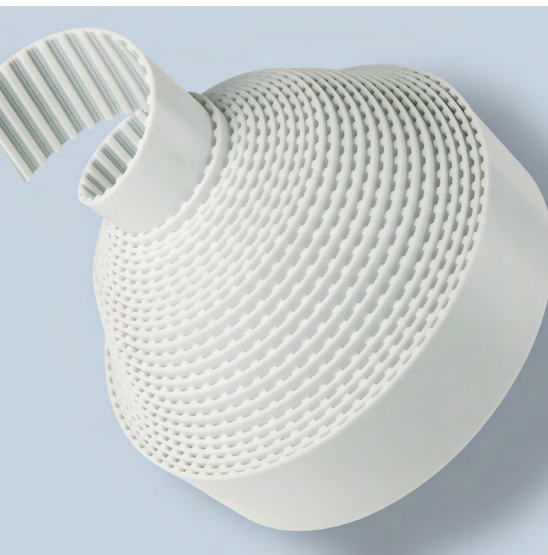
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
10	6,47	5,96
12	7,76	7,25
13	8,41	7,90
14	9,06	8,55
15	9,70	9,19
16	10,35	9,84
17	11,00	10,49
18	11,64	11,13
19	12,29	11,78
20	12,94	12,43
21	13,58	13,07
22	14,23	13,72
24	15,52	15,01

N° TEETH	DP	DE
26	16,81	16,30
28	18,11	17,60
30	19,40	18,89
32	20,70	20,19
34	21,99	21,48
36	23,29	22,78
40	25,87	25,36
42	27,17	26,66
44	28,46	27,95
48	31,05	30,54
60	38,81	38,30
65	42,04	41,53
72	46,57	46,06



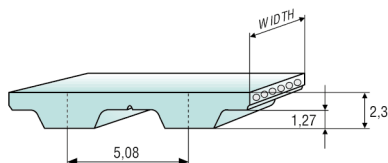
MEGALINEAR

XL OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound AVAF 60/70/85 ShA APL Cleats

TOOTH PROFILE ACCORDING TO ISO 5296-1



For different back coating materials see page 134

TOOTH RESISTANCE

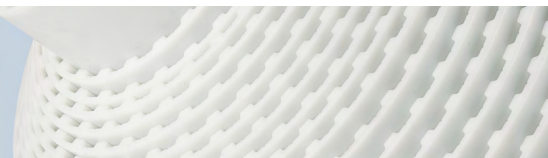
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	19	19	18	18	17	17	16	15	15	14	13	13	12	11	10	9	8	7

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

TRACTION RESISTANCE

CORD MATERIAL	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	—	—

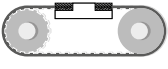
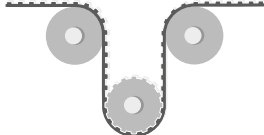
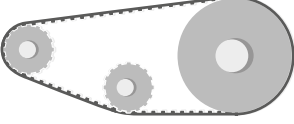
Average values



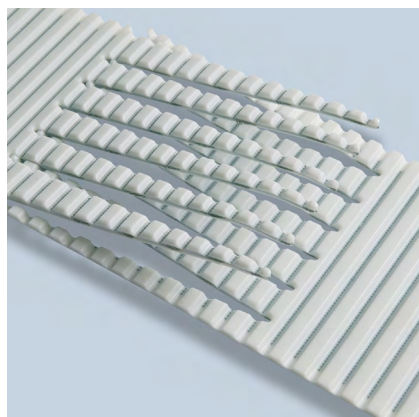
MEGALINEAR

XL OPEN-ENDED

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

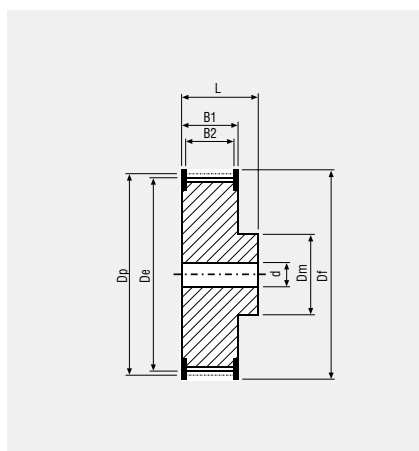
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

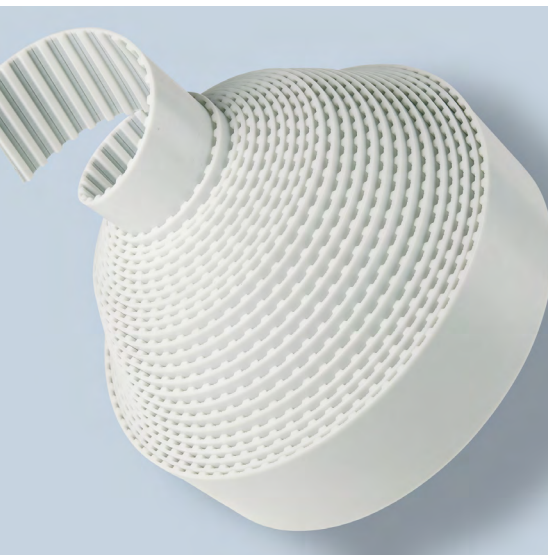
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
10	16,17	15,66
11	17,79	17,28
12	19,40	18,89
13	21,02	20,51
14	22,64	22,13
15	24,26	23,75
16	25,87	25,36
17	27,49	26,98
18	29,11	28,60
19	30,72	30,21
20	32,34	31,83
21	33,96	33,45
22	35,57	35,07
24	38,81	38,30

N° TEETH	DP	DE
26	42,04	41,53
27	43,67	43,16
28	45,28	44,77
29	46,89	46,38
30	48,51	48,00
32	51,74	51,23
34	54,98	54,47
35	56,60	56,09
36	58,21	57,70
38	61,45	60,94
39	63,06	62,55
40	64,68	64,17
42	67,91	67,40
44	71,15	70,64



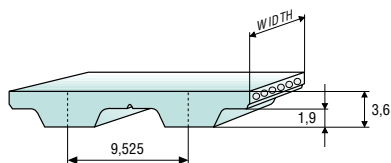
MEGALINEAR

L OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound AVAF 60/70/85 ShA APL Cleats

TOOTH PROFILE ACCORDING TO ISO 5296-1



For different back coating materials see page 134

TOOTH RESISTANCE

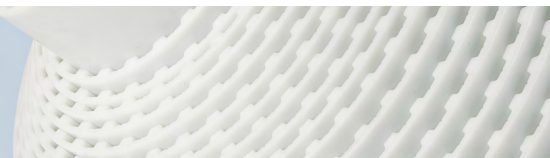
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	37	36	35	35	34	33	31	29	28	27	24	23	20	19	16	15	13	11

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

TRACTION RESISTANCE

CORD MATERIAL	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



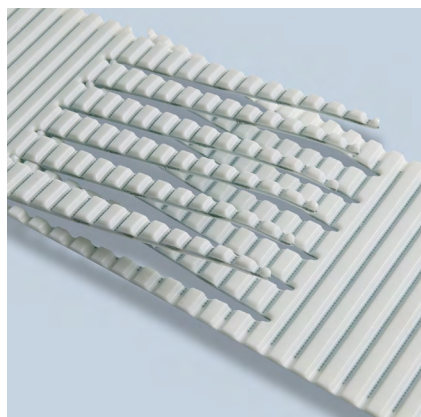
MEGALINEAR

L OPEN-ENDED

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:



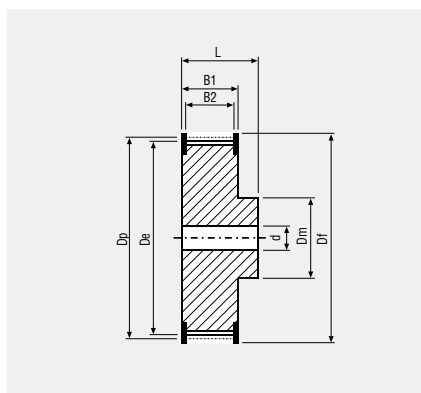
JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

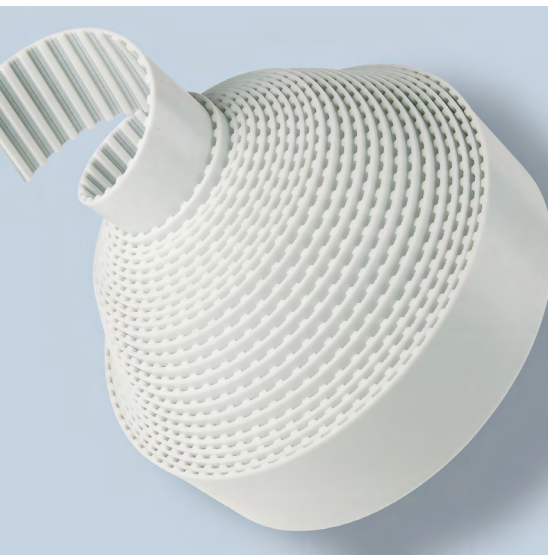
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
15	45,48	44,72
16	48,51	47,75
17	51,54	50,78
18	54,57	53,81
19	57,61	56,85
20	60,64	59,88
21	63,67	62,91
22	66,70	65,94
23	69,73	68,97
24	72,77	72,01
25	75,80	75,04
26	78,83	78,07

N° TEETH	DP	DE
27	81,86	81,10
28	84,89	84,13
29	87,93	87,17
30	90,96	90,20
32	97,02	96,26
34	103,08	102,32
36	109,15	108,39
40	121,28	120,52
44	133,40	132,64
48	145,53	144,76
56	169,79	169,03



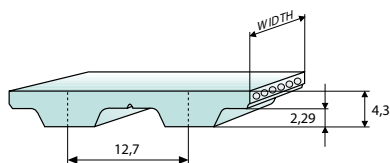
MEGALINEAR

H OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound AVAFC 60/70/85 ShA APL Cleats

TOOTH PROFILE ACCORDING TO ISO 5296-1



For different back coating materials see page 134

TOOTH RESISTANCE

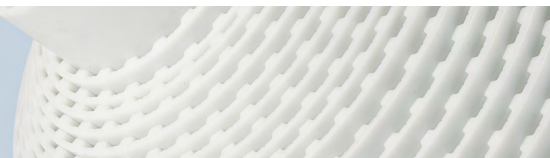
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	44	43	42	41	40	39	36	34	33	31	29	27	24	22	19	17	16	12

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

TRACTION RESISTANCE

CORD MATERIAL	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	—	—	—

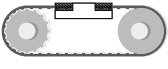
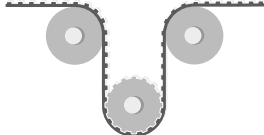
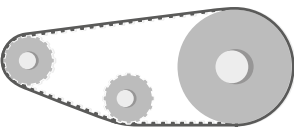
Average values

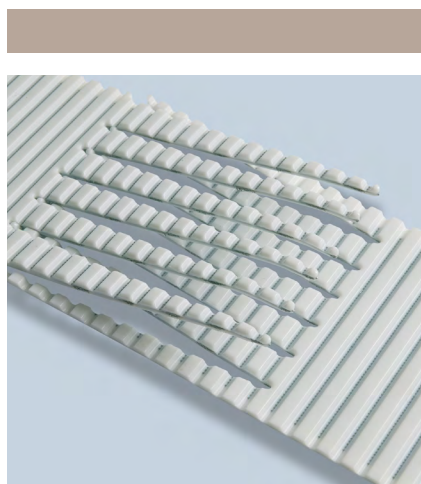


MEGALINEAR

H OPEN-ENDED

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

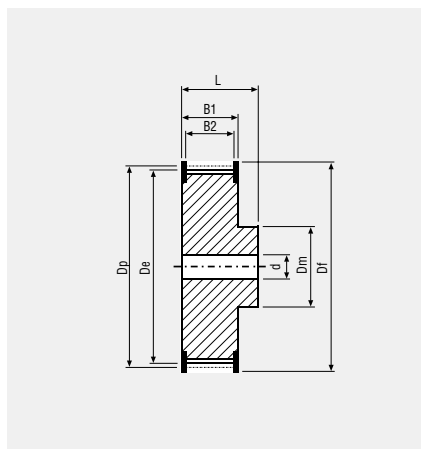


JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

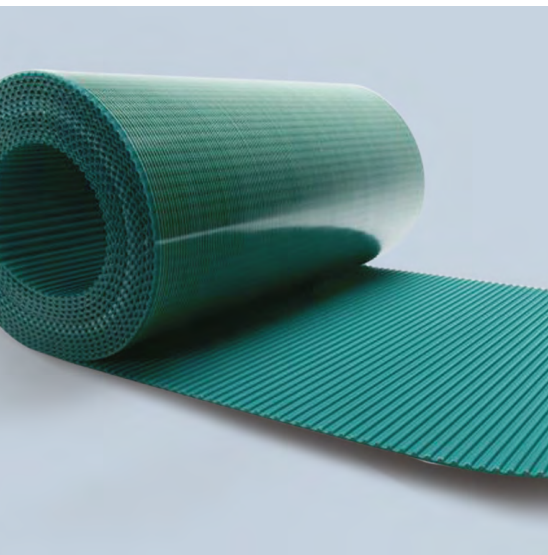
PULLEYS

(FOR MORE DETAILS PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
14	56,60	55,23
15	60,64	59,27
16	64,68	63,31
17	68,72	67,35
18	72,77	71,40
19	76,81	75,44
20	80,85	79,48
21	84,89	83,52
22	88,94	87,57
23	92,98	91,61
24	97,02	95,65
25	101,06	99,69
26	105,11	103,74
27	109,15	107,78

N° TEETH	DP	DE
28	113,19	111,82
29	117,23	115,86
30	121,28	119,91
32	129,36	127,99
33	133,40	132,03
34	137,45	136,08
35	141,49	140,12
36	145,53	144,16
38	153,62	152,25
40	161,70	160,33
44	177,87	176,50
48	194,04	192,67
52	210,21	208,84
60	242,55	241,18



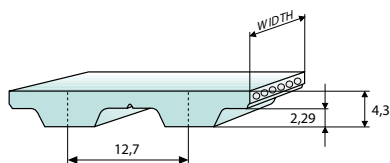
MEGALINEAR

H WIDE OPEN-ENDED

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	+/- 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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound

TOOTH PROFILE ACCORDING TO 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						
CORD MATERIAL	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

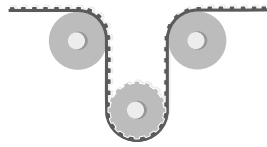
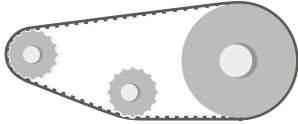
Average values



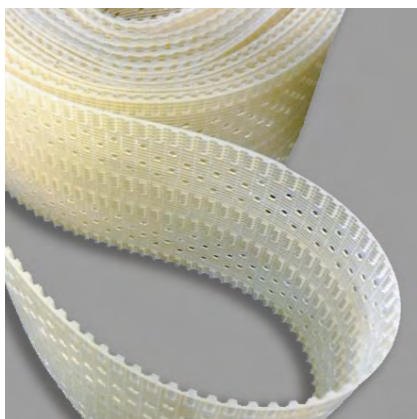
MEGALINEAR

H WIDE OPEN-ENDED

FLEXION RESISTANCE

				
	Z_{MIN}	IDLER MIN DIA (mm)	Z_{MIN}	IDLER MIN DIA (mm)
Kevlar® cords	20	80	14	60

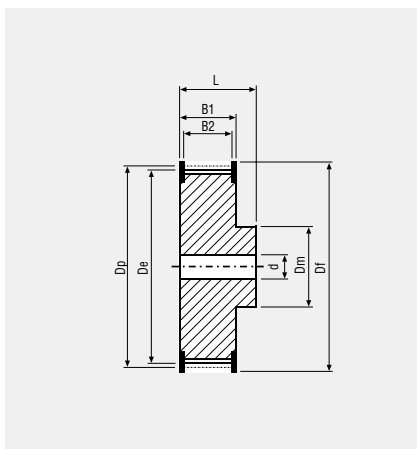
JOINED BELT INFORMATION:



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

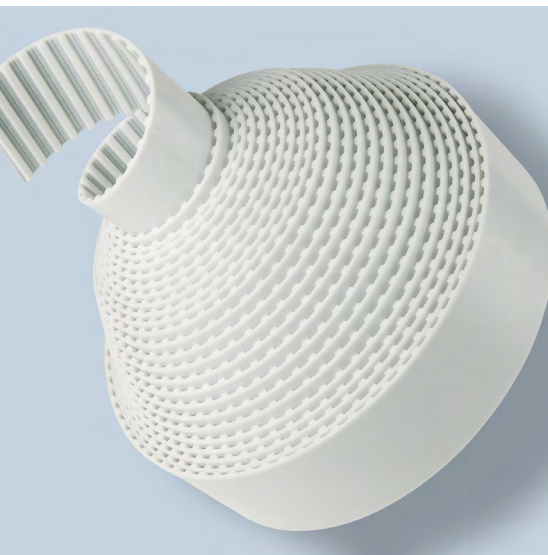
PULLEYS

(FOR MORE DETAILS PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
14	56,60	55,23
15	60,64	59,27
16	64,68	63,31
17	68,72	67,35
18	72,77	71,40
19	76,81	75,44
20	80,85	79,48
21	84,89	83,52
22	88,94	87,57
23	92,98	91,61
24	97,02	95,65
25	101,06	99,69
26	105,11	103,74
27	109,15	107,78

N° TEETH	DP	DE
28	113,19	111,82
29	117,23	115,86
30	121,28	119,91
32	129,36	127,99
33	133,40	132,03
34	137,45	136,08
35	141,49	140,12
36	145,53	144,16
38	153,62	152,25
40	161,70	160,33
44	177,87	176,50
48	194,04	192,67
52	210,21	208,84
60	242,55	241,18



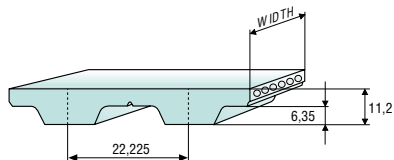
MEGALINEAR

XH OPEN-ENDED

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

TOOTH PROFILE ACCORDING TO
ISO 5296-1



Belt options on request
with a minimum quantity

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

For different back coating materials see page 134

TOOTH RESISTANCE

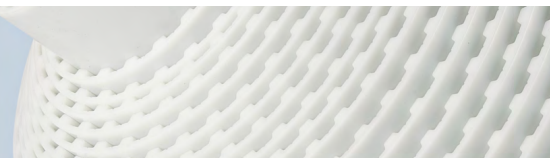
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000
F _{p spec} (N/cm)	115	111	108	105	103	101	92	86	81	78	70	65	57	51	43	37

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

TRACTION RESISTANCE

CORD MATERIAL	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	–	–	–

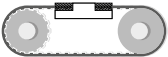
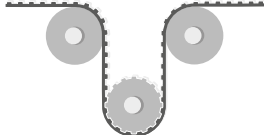
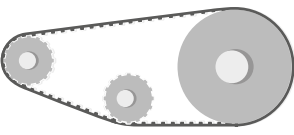
Average values



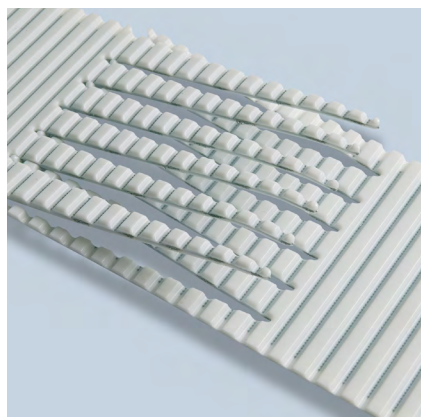
MEGALINEAR

XH OPEN-ENDED

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

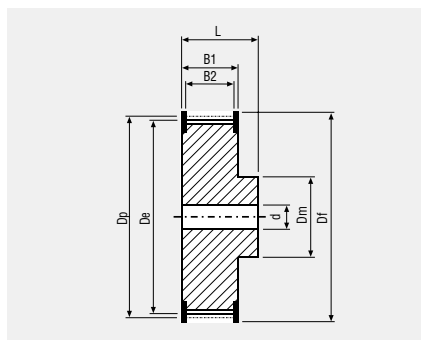
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

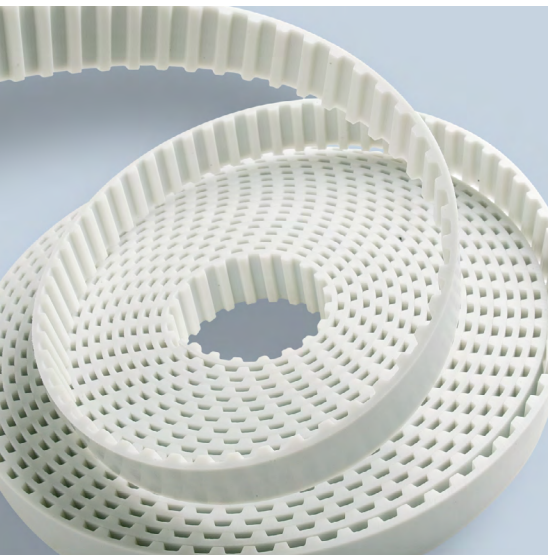
PULLEYS

(FOR MORE DETAILS PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
18	127,34	124,55
20	141,49	138,70
22	155,64	152,83
24	169,79	167,00
26	183,92	181,13
28	198,08	195,29
30	212,23	209,44
32	226,38	223,59

N° TEETH	DP	DE
40	282,98	280,19
44	311,28	308,48
48	339,57	336,78
60	424,47	421,68
72	509,36	506,57
84	594,25	591,46
96	679,15	676,35
120	848,93	846,14



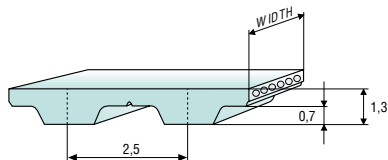
MEGALINEAR

T2,5 OPEN-ENDED

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 TO
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				
CORD MATERIAL	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

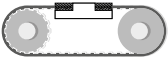
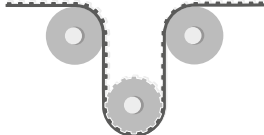
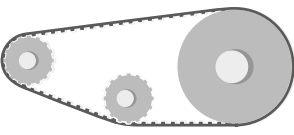
Average values



MEGALINEAR

T2,5 OPEN-ENDED

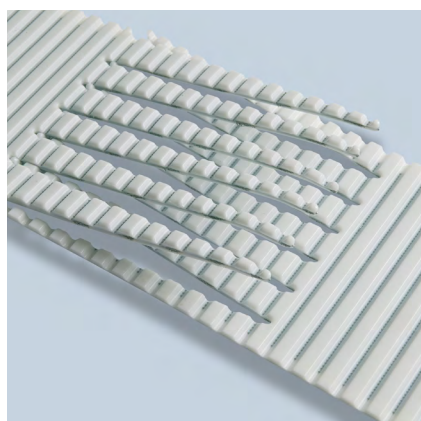
FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cord	10	18 15	10 18



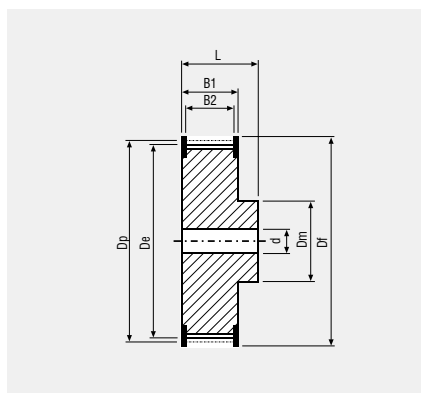
JOINED BELT INFORMATION:

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



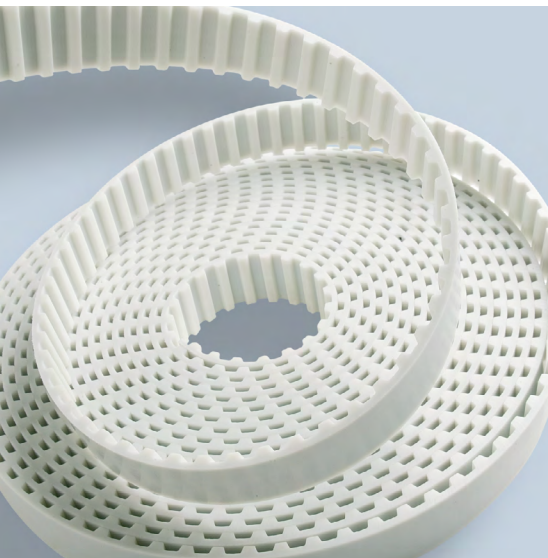
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
10	7,96	7,45
11	8,75	8,25
12	9,55	9,00
13	10,34	9,80
14	11,14	10,60
15	11,94	11,40
16	12,73	12,20
17	13,53	13,00
18	14,32	13,80
19	15,12	14,60
20	15,92	15,40
21	16,71	16,20

N° TEETH	DP	DE
22	17,51	17,00
24	19,10	18,55
26	20,69	20,15
28	22,28	21,75
30	23,87	23,35
32	25,46	24,95
36	28,65	28,10
40	31,83	31,30
44	35,01	34,50
48	38,20	37,70
60	47,75	47,25
72	55,20	55,20



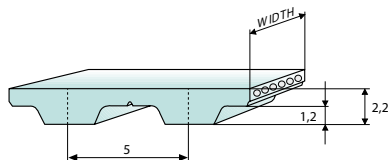
MEGALINEAR

T5 OPEN-ENDED

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

TOOTH PROFILE ACCORDING TO ISO 17396



For different back coating materials see page 134

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

CORD MATERIAL	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

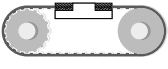
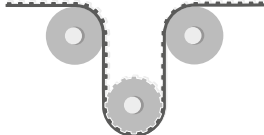
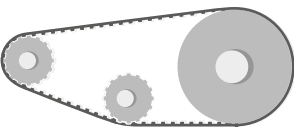
MEGALINEAR



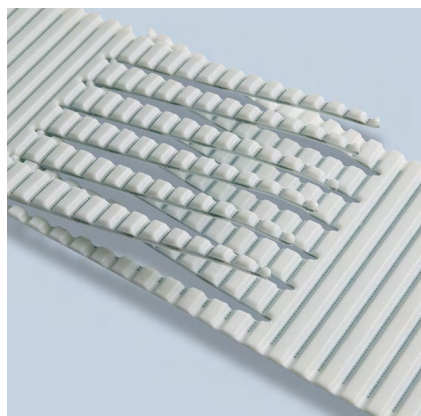
MEGALINEAR

T5 OPEN-ENDED

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

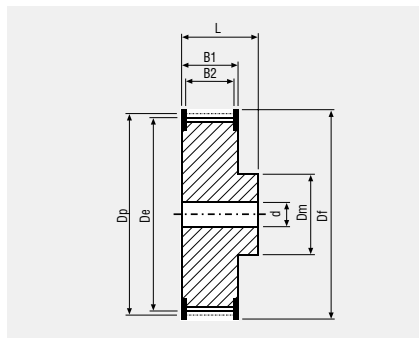
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
10	15,92	15,09
12	19,10	18,27
14	22,28	21,45
15	23,87	23,04
16	25,46	24,64
18	28,65	27,82
19	30,24	29,41
20	31,83	31,00
22	35,01	34,19
24	38,20	37,37

N° TEETH	DP	DE
25	39,79	38,96
28	44,56	43,73
30	47,75	46,92
32	50,93	50,10
36	57,30	56,47
40	63,66	62,93
42	66,85	66,02
44	70,03	69,20
48	76,39	75,57
60	95,49	94,67

MEGALINEAR

MEGAECO BIOBASED T5

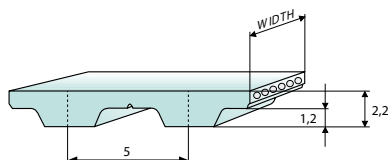
STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100	150
Weight (gr/m)	15	20	35	55	70	105	160	215	330

Standard compound	green polyurethane thermoplastic 90 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 length tolerance	+/- 0,8 mm/m
Standard roll length	100 m

MEGALINEAR MegaEco Biobased is the eco-friendly and impact-reducing belt solution with no compromise on the quality of performance.



TOOTH PROFILE ACCORDING TO ISO 17396



TOOTH RESISTANCE

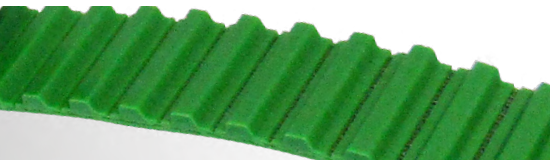
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	24	23	23	22	22	22	20	19	19	18	17	16	15	14	12	11	11	9

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

TRACTION RESISTANCE

CORD MATERIAL	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

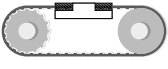
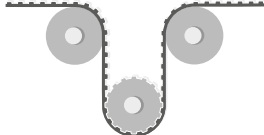
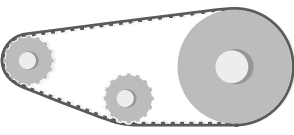
Average values



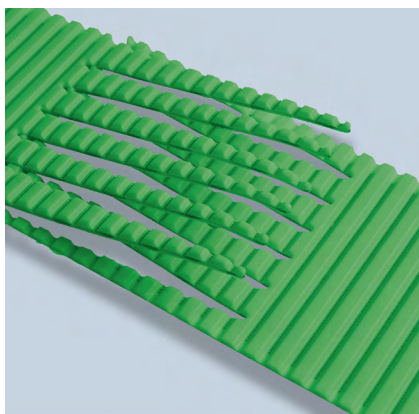
MEGALINEAR

MEGAECO BIOBASED T5

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	10	15 30	10 30

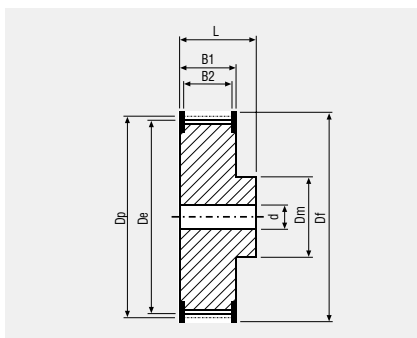
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Minimum diameters according above table

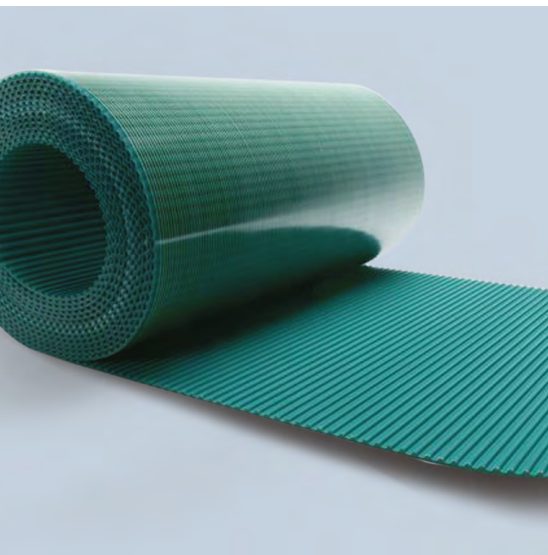
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
10	15,92	15,09
12	19,10	18,27
14	22,28	21,45
15	23,87	23,04
16	25,46	24,64
18	28,65	27,82
19	30,24	29,41
20	31,83	31,00
22	35,01	34,19
24	38,20	37,37

N° TEETH	DP	DE
25	39,79	38,96
28	44,56	43,73
30	47,75	46,92
32	50,93	50,10
36	57,30	56,47
40	63,66	62,93
42	66,85	66,02
44	70,03	69,20
48	76,39	75,57
60	95,49	94,67



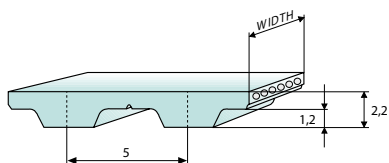
MEGALINEAR

T5 WIDE OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Transparent FDA compound

TOOTH PROFILE ACCORDING TO 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			
CORD MATERIAL	BELT WIDTH (mm)	250	500
Kevlar®	Max Traction Load (N)	6595	13190
	Breaking Strength (N)	23085	46170
	Elongation at MTL (mm/m)	8	8

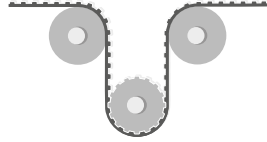
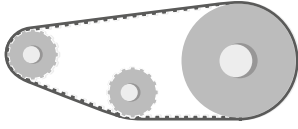
Average values

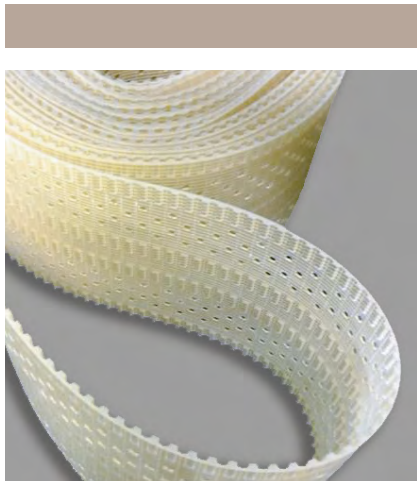


MEGALINEAR

T5 WIDE OPEN-ENDED

FLEXION RESISTANCE

				
	Z_{MIN}	IDLER MIN DIA (mm)	Z_{MIN}	IDLER MIN DIA (mm)
Kevlar® cords	15	45	12	45

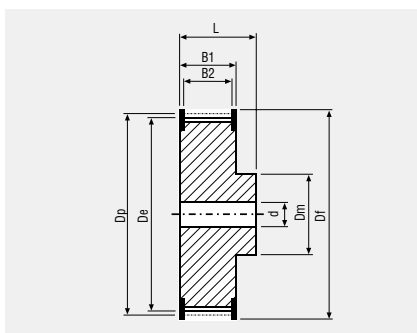


JOINED BELT INFORMATION:

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

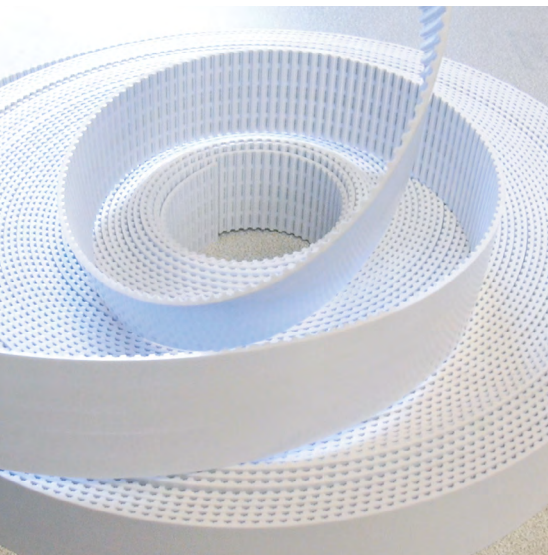
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
10	15,92	15,09
12	19,10	18,275
14	22,28	21,45
15	23,87	23,04
16	25,46	24,64
18	28,65	27,82
19	30,24	29,41
20	31,83	31,00
22	35,01	34,19
24	38,20	37,37

N° TEETH	DP	DE
25	39,79	38,96
28	44,56	43,73
30	47,75	46,92
32	50,93	50,10
36	57,30	56,47
40	63,66	62,93
42	66,85	66,02
44	70,03	69,20
48	76,39	75,57
60	95,49	94,67



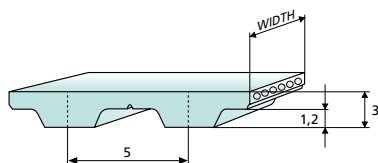
MEGALINEAR

TT5 FOR KNITTING MACHINE

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

TOOTH PROFILE ACCORDING TO
ISO 17396



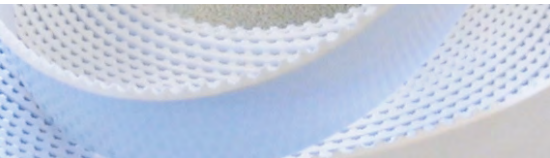
TOOTH RESISTANCE

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

CORD MATERIAL	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

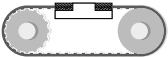
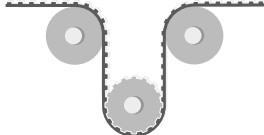
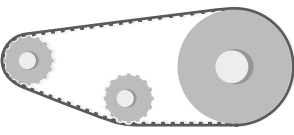
Average values



MEGALINEAR

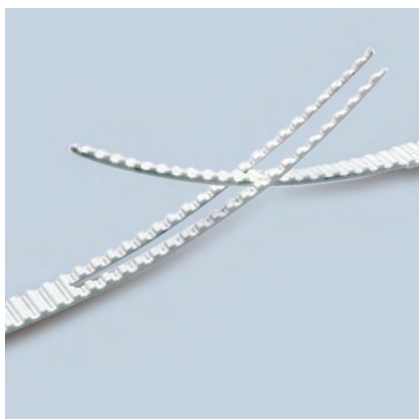
TT5 FOR KNITTING MACHINE

FLEXION RESISTANCE

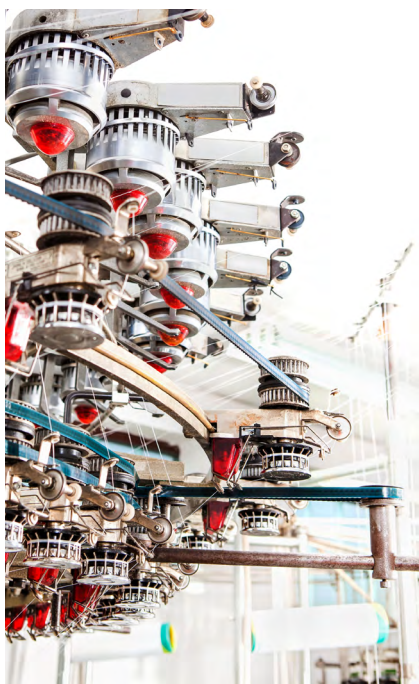
			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	10	15 30	10 30
Kevlar® cords	12	15 30	12 30



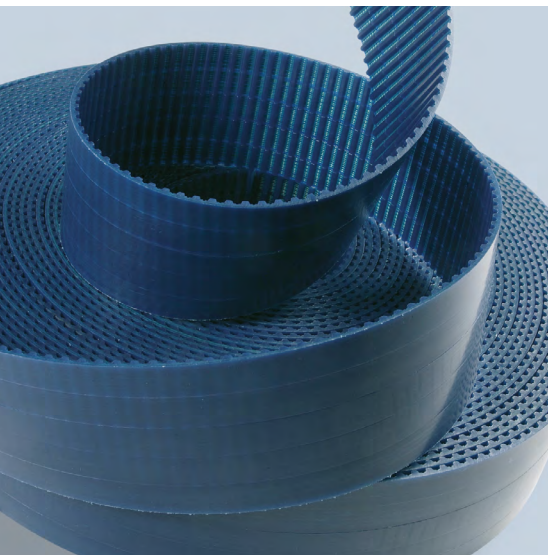
JOINED BELT INFORMATION:



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



MEGALINEAR



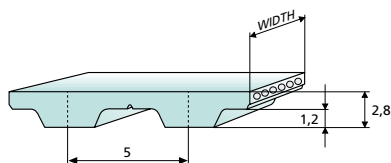
MEGALINEAR

TT5 FOR KNITTING MACHINE

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

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 TO
ISO 17396



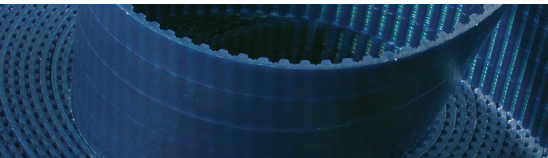
TOOTH RESISTANCE

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

CORD MATERIAL	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

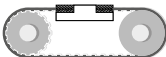
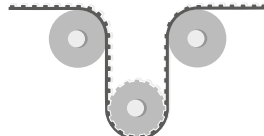
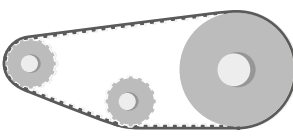
Average values



MEGALINEAR

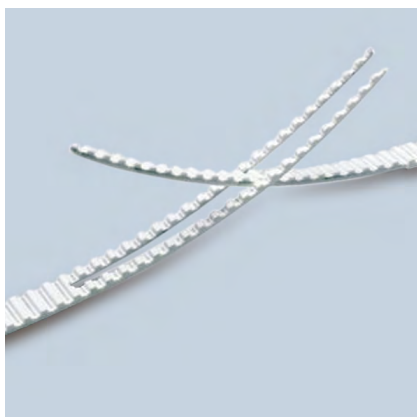
TT5 FOR KNITTING MACHINE

FLEXION RESISTANCE

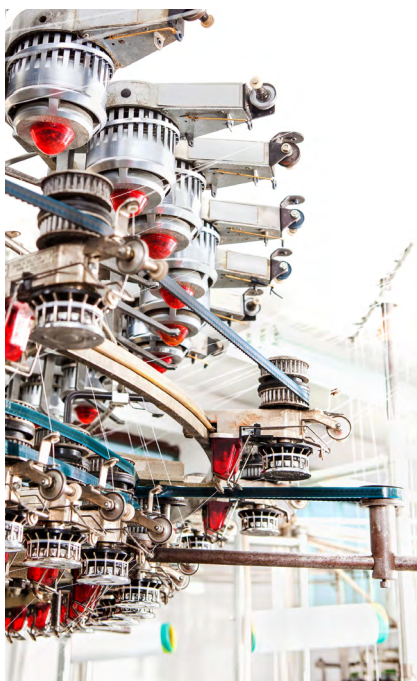
					
	Z_{MIN}	Z_{MIN}	IDLER MIN DIA (mm)	Z_{MIN}	IDLER MIN DIA (mm)
Standard steel cords	10	15	30	10	30
Kevlar® cords	12	15	30	12	30



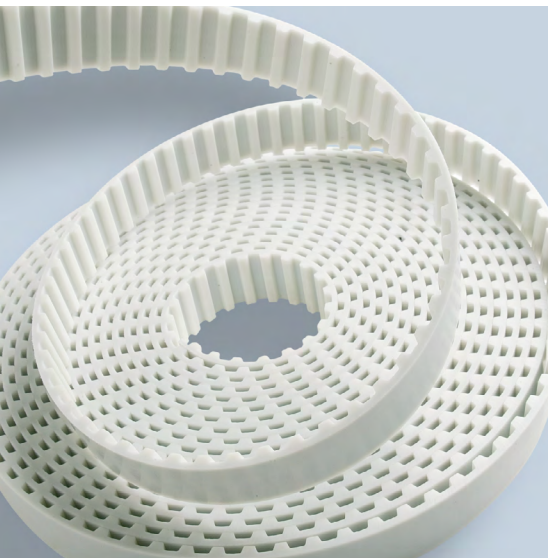
JOINED BELT INFORMATION:



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



MEGALINEAR



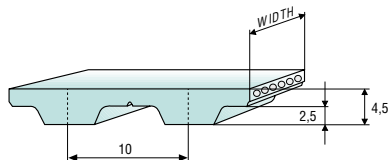
MEGALINEAR

T10 OPEN-ENDED

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

TOOTH PROFILE ACCORDING TO ISO 17396



Belt options on request with a 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

For different back coating materials see page 134

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

CORD MATERIAL	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

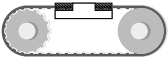
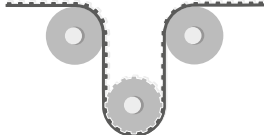
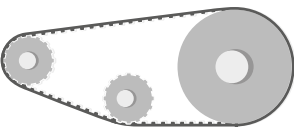
MEGALINEAR



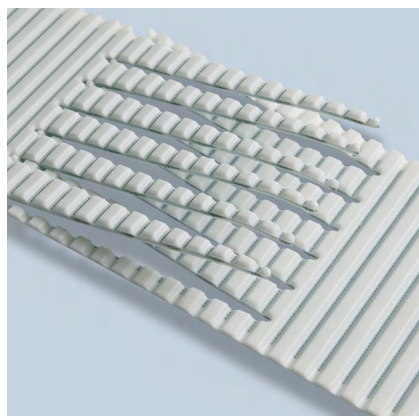
MEGALINEAR

T10 OPEN-ENDED

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

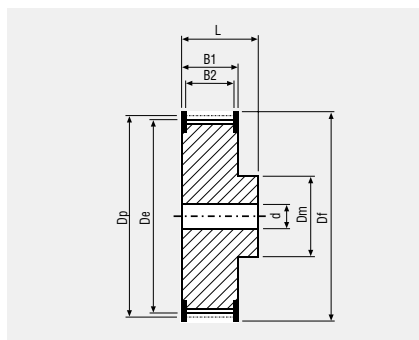
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
12	38,20	36,35
14	44,56	42,71
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73

N° TEETH	DP	DE
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14

MEGALINEAR

MEGALINEAR

MEGAECO BIOBASED T10

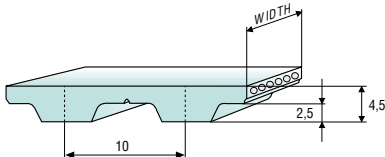
STANDARD WIDTHS (mm)	12	16	25	32	50	75	100	150
Weight (gr/m)	50	75	115	145	225	340	435	680

Standard compound	green polyurethane thermoplastic 90 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

MEGALINEAR MegaEco Biobased is the eco-friendly and impact-reducing belt solution with no compromise on the quality of performance.



TOOTH PROFILE ACCORDING TO 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

CORD MATERIAL	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

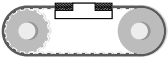
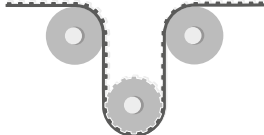
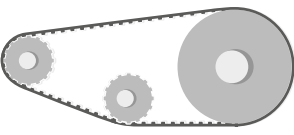
Average values



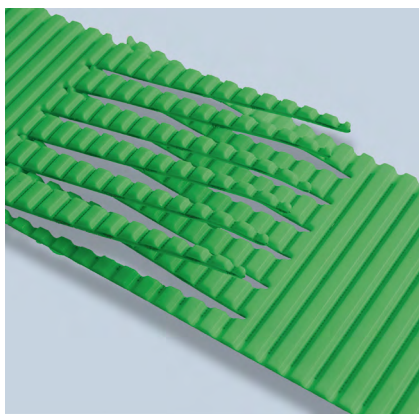
MEGALINEAR

MEGAECO BIOBASED T10

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	12	20 60	12 60

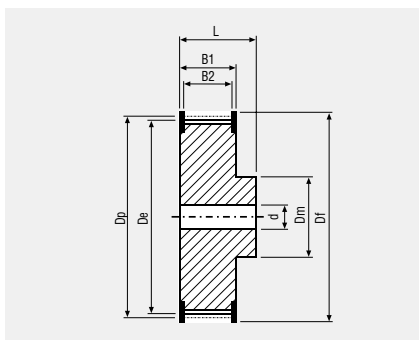
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Minimum diameters according above table

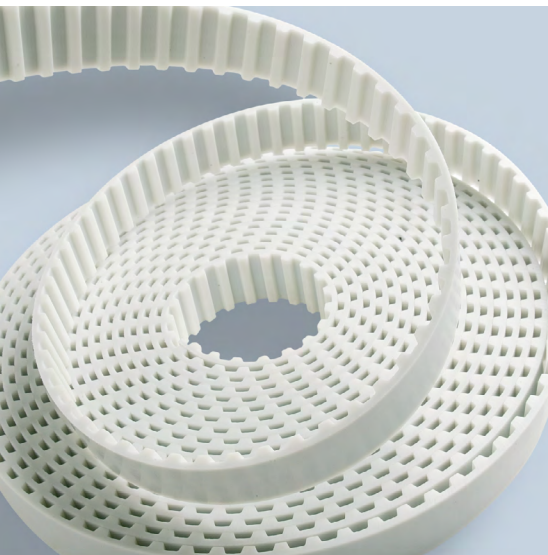
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
12	38,20	36,35
14	44,56	42,71
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73

N° TEETH	DP	DE
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14



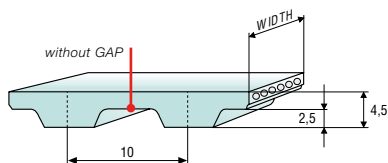
MEGALINEAR

T10 WITHOUT GAP OPEN-ENDED

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 TO 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

CORD MATERIAL	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

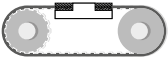
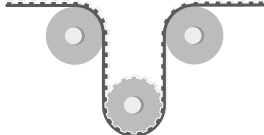
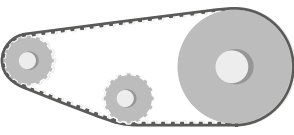
Average values



MEGALINEAR

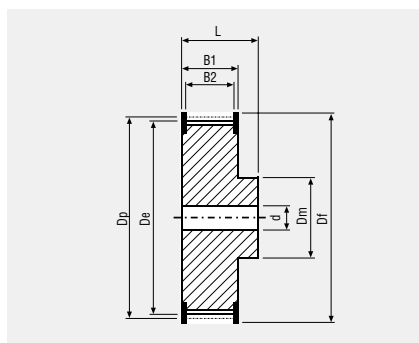
T10 WITHOUT GAP OPEN-ENDED

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

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



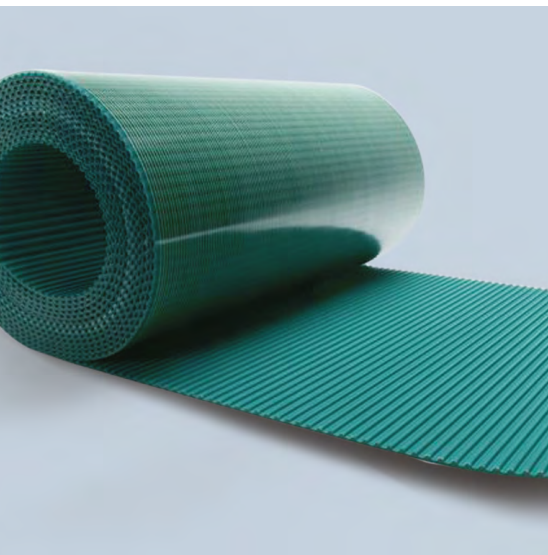
N° TEETH	DP	DE
12	38,20	36,35
14	44,56	42,71
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73

N° TEETH	DP	DE
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14

TYPICAL APPLICATION: CAR WASHING MACHINE



MEGALINEAR



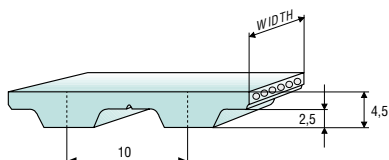
MEGALINEAR

T10 WIDE OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic Nylon fabric Transparent FDA compound

TOOTH PROFILE ACCORDING TO 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							
CORD MATERIAL	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

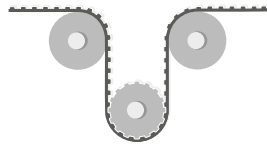
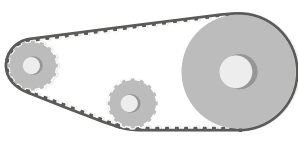
Average values



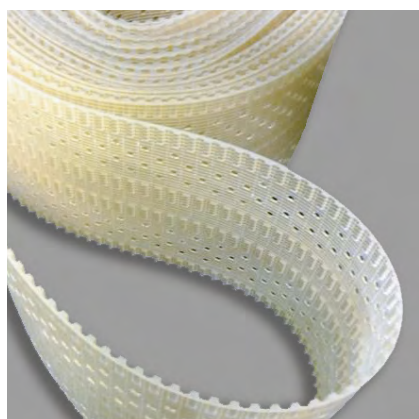
MEGALINEAR

T10 WIDE OPEN-ENDED

FLEXION RESISTANCE

				
	Z_{MIN}	IDLER MIN DIA (mm)	Z_{MIN}	IDLER MIN DIA (mm)
Kevlar® cords	20	60	15	60

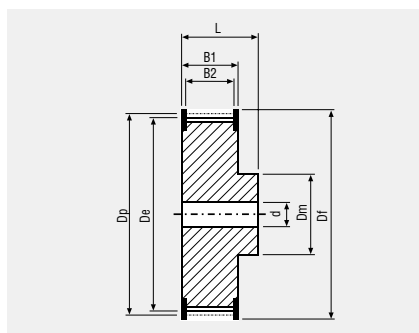
JOINED BELT INFORMATION:



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

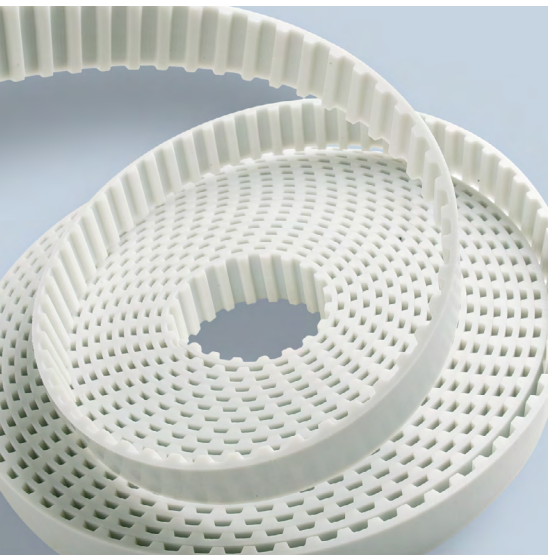
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
12	38,20	36,35
14	44,56	42,71
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73

N° TEETH	DP	DE
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14



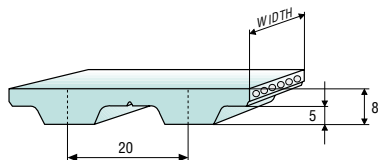
MEGALINEAR

T20 OPEN-ENDED

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

TOOTH PROFILE ACCORDING TO ISO 17396



Belt options on request with a minimum quantity

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

For different back coating materials see page 134

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

CORD MATERIAL	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

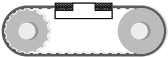
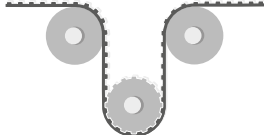
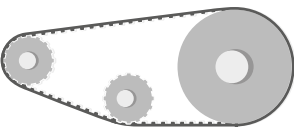
MEGALINEAR



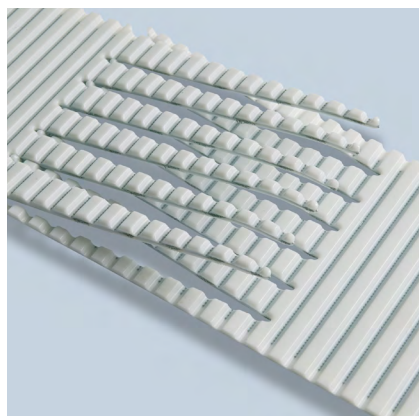
MEGALINEAR

T20 OPEN-ENDED

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

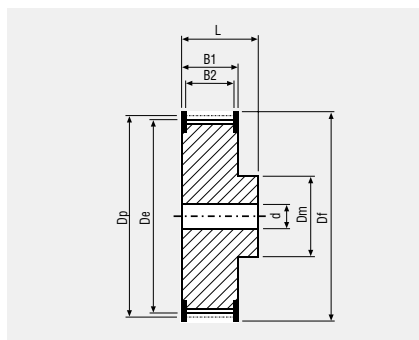
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

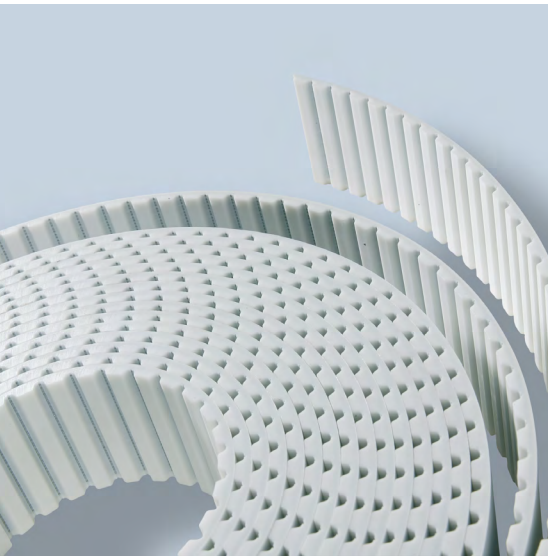
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
15	95,54	92,69
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

N° TEETH	DP	DE
30	190,99	188,13
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

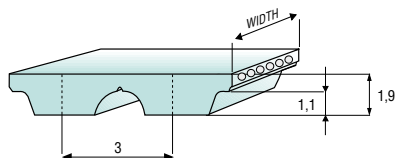
AT3 OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric

For different back coating materials see page 134

TOOTH PROFILE ACCORDING TO 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

CORD MATERIAL	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

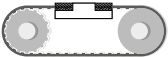
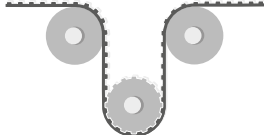
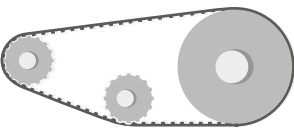
Average values



MEGALINEAR

AT3 OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	20	25 30	20 30

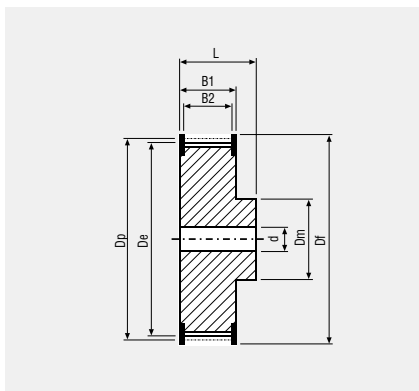
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

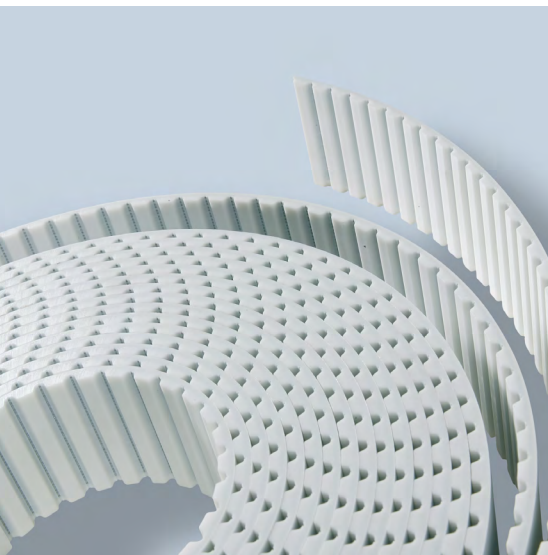
PULLEYS

(FOR MORE DETAILS PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
20	19,10	18,69
22	21,01	20,6
24	22,92	22,51
25	23,88	23,46
27	25,79	25,37
30	28,66	28,24
32	30,57	30,15

N° TEETH	DP	DE
36	34,39	33,97
40	38,21	37,79
44	42,03	41,61
45	42,99	42,56
48	45,85	45,43
60	57,32	58,69
72	68,78	68,34



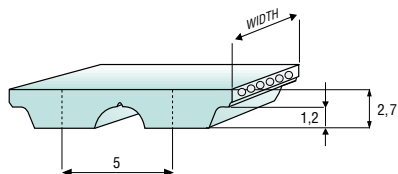
MEGALINEAR

AT5 OPEN-ENDED

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 length tolerance	+0/- 0,8 mm/m
Standard roll length	100 m
Belt options on request with a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound AVAFC 60/70/85 ShA APL Cleats

TOOTH PROFILE ACCORDING TO ISO 17396



For different back coating materials see page 134

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

CORD MATERIAL	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

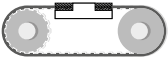
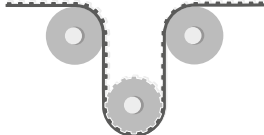
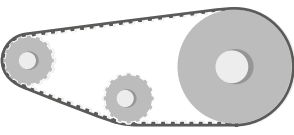
MEGALINEAR



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AT5 OPEN-ENDED

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

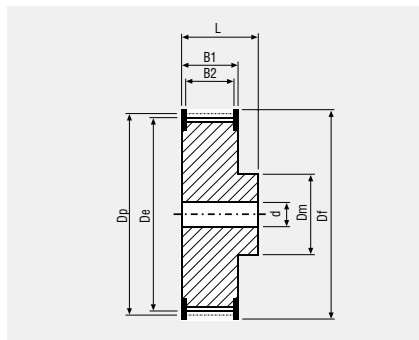
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
15	23,87	22,64
16	25,46	24,24
18	28,65	27,42
19	30,24	29,01
20	31,83	30,60
22	35,01	33,79
24	38,20	36,97
25	39,79	38,56
26	41,38	40,15
27	42,97	41,74

N° TEETH	DP	DE
28	44,56	43,33
30	47,75	46,52
32	50,93	49,70
36	57,30	56,07
40	63,66	62,43
42	66,85	65,62
44	70,03	68,80
48	76,39	75,17
60	95,49	94,27

MEGALINEAR

MEGAECO BIOBASED AT5

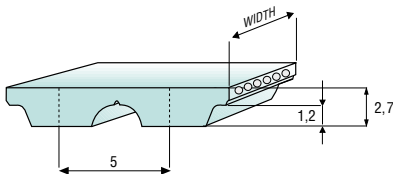
STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100
Weight (gr/m)	20	35	50	80	105	165	245	340

Standard compound	green polyurethane thermoplastic 90 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
Standard roll length	100 m

MEGALINEAR MegaEco Biobased is the eco-friendly and impact-reducing belt solution with no compromise on the quality of performance.



TOOTH PROFILE ACCORDING TO 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

TRACTION RESISTANCE

CORD MATERIAL	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

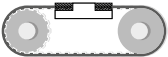
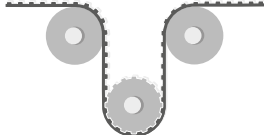
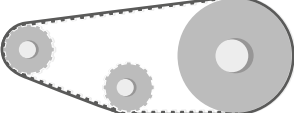
Average values



MEGALINEAR

MEGAECO BIOBASED AT5

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	15	15 60	15 25

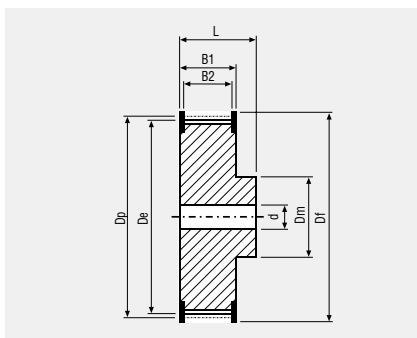
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Rolls with NFT, NFB, AVAFC, and APL can be joined too
- Minimum diameters according above table

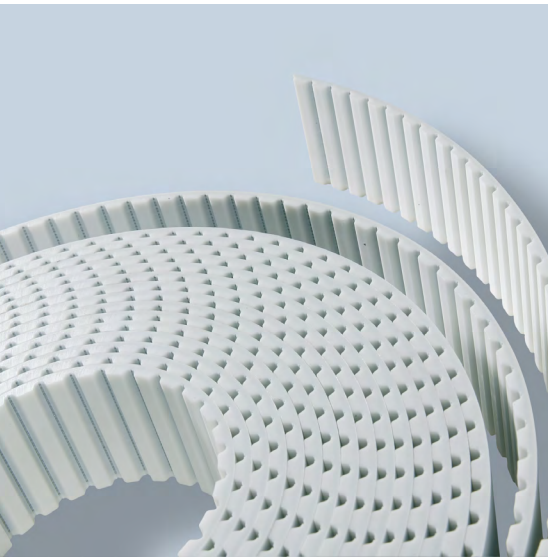
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
15	23,87	22,64
16	25,46	24,24
18	28,65	27,42
19	30,24	29,01
20	31,83	30,60
22	35,01	33,79
24	38,20	36,97
25	39,79	38,56
26	41,38	40,15
27	42,97	41,74

N° TEETH	DP	DE
28	44,56	43,33
30	47,75	46,52
32	50,93	49,70
36	57,30	56,07
40	63,66	62,43
42	66,85	65,62
44	70,03	68,80
48	76,39	75,17
60	95,49	94,27



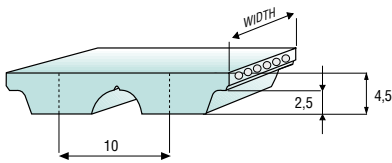
MEGALINEAR

AT10 OPEN-ENDED

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 length tolerance	+0/- 0,8 mm/m
Standard roll length	100 m

TOOTH PROFILE ACCORDING TO ISO 17396



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

For different back coating materials see page 134

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

CORD MATERIAL	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

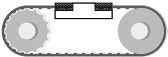
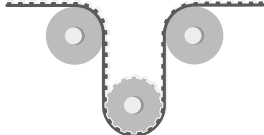
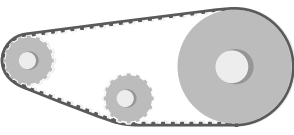
MEGALINEAR



MEGALINEAR

AT10 OPEN-ENDED

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

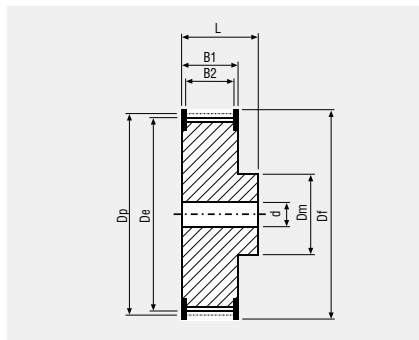
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)

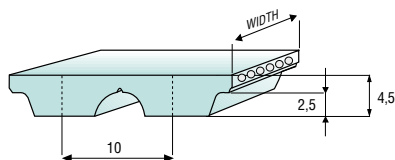


N° TEETH	DP	DE
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73
26	82,76	80,91

N° TEETH	DP	DE
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14



TOOTH PROFILE ACCORDING TO
ISO 17396



MEGALINEAR

MEGAECO BIOBASED AT10

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

Standard compound	green polyurethane thermoplastic 90 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

MEGALINEAR MegaEco Biobased is the eco-friendly and impact-reducing belt solution with no compromise on the quality of performance.

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

TRACTION RESISTANCE

CORD MATERIAL	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

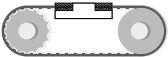
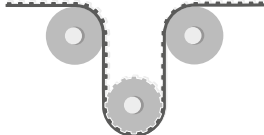
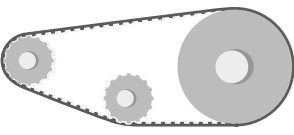
Average values



MEGALINEAR

MEGAECO BIOBASED AT10

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	15	20 120	15 50

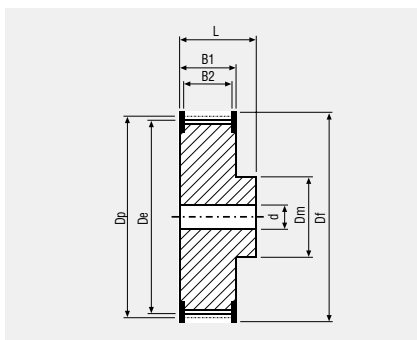
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Minimum diameters according above table

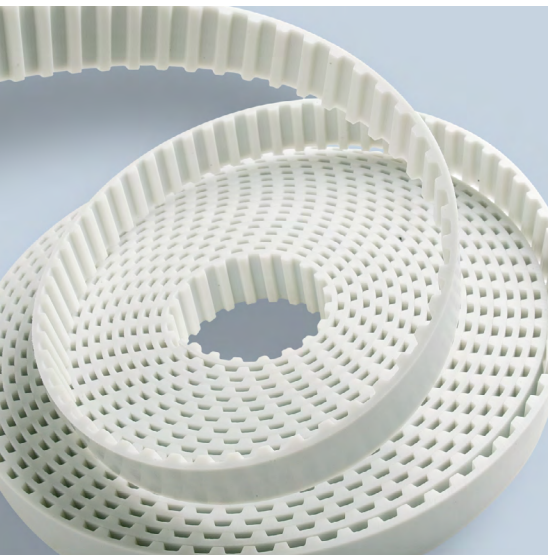
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73
26	82,76	80,91

N° TEETH	DP	DE
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14



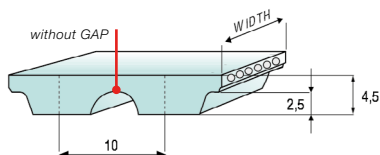
MEGALINEAR

AT10 WITHOUT GAP OPEN-ENDED

STANDARD WIDTHS (mm)	16	25	32	50	75	100
Weight (gr/m)	102	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 TO
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

CORD MATERIAL	BELT WIDTH (mm)	16	25	32	50	75	100
Steel	Max Traction Load (N)	1900	3560	4510	7835	12750	17250
	Breaking Strength (N)	7600	14250	18050	31350	48450	65550
	Elongation at MTL (mm/m)	4	4	4	4	4	4

Average values



MEGALINEAR

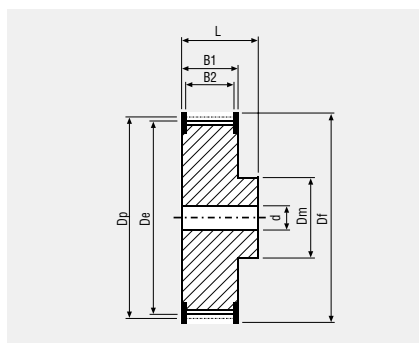
AT10 WITHOUT GAP OPEN-ENDED

FLEXION RESISTANCE

	Z_{MIN}	Z_{MIN}	Z_{MIN}
Standard steel cords	15	20	15
		IDLER MIN DIA (mm)	IDLER MIN DIA (mm)
		120	50

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



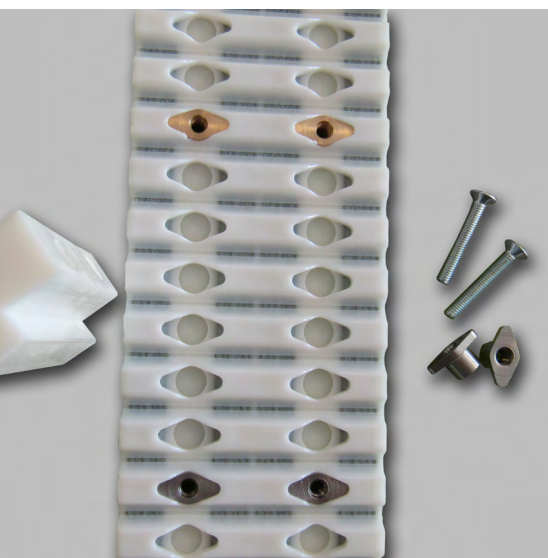
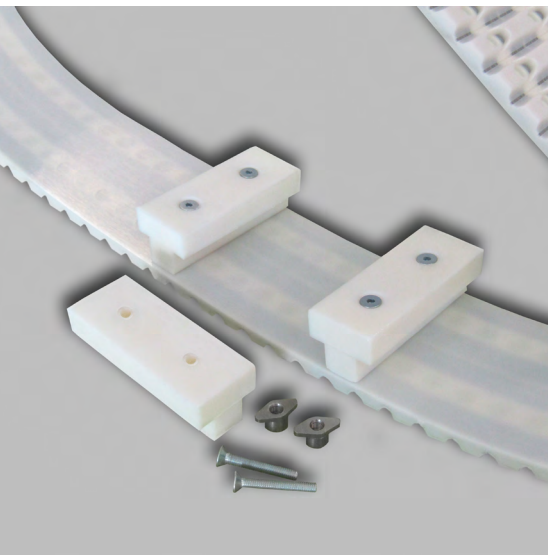
N° TEETH	DP	DE
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73
26	82,76	80,91

N° TEETH	DP	DE
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14

TYPICAL APPLICATION: CAR WASHING MACHINE



MEGALINEAR



MEGALINEAR

MEGAC4T AT10 OPEN-ENDED

STANDARD WIDTHS (mm)	25	50	75	100
Weight (gr/m)	125	250	375	500

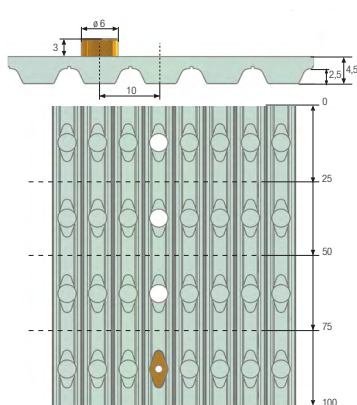
Standard compound	white polyurethane thermoplastic 92 ShA
Standard back cover	none
Standard tooth cover	none
Standard cords	S and Z torsion zinked steel
Standard width tolerance	+/- 0,5 mm
Standard thickness	4,5 +/- 0,3 mm
Standard length tolerance	+/- 0,8 mm/m
Standard roll length	100 m
Standard inserts	brass and stainless steel (M4)

TOOTH RESISTANCE									
RPM (1/min)	0	20	40	60	80	100	200	300	400
F _{p spec} (N/cm)	60	58	57	57	56	55	52	50	48

TOOTH RESISTANCE (CONT.)									
RPM (1/min)	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	47	42	40	34	30	27	23	21	15

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

TOOTH PROFILE ACCORDING TO ISO 17396



Average values

TRACTION RESISTANCE					
CORD MATERIAL	BELT WIDTH (mm)	25	50	75	100
Steel	Max Traction Load (N)	2850	5700	9000	12000
	Breaking Strength (N)	11400	22800	34200	45600
	Elongation at MTL (mm/m)	4	4	4	4

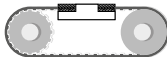
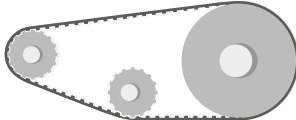
MEGALINEAR



MEGALINEAR

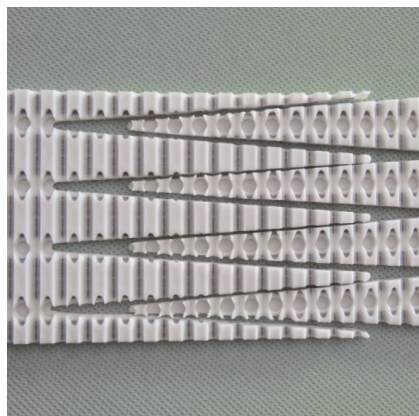
MEGAC4T AT10 OPEN-ENDED

FLEXION RESISTANCE

		
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	25	25 80



JOINED BELT INFORMATION:

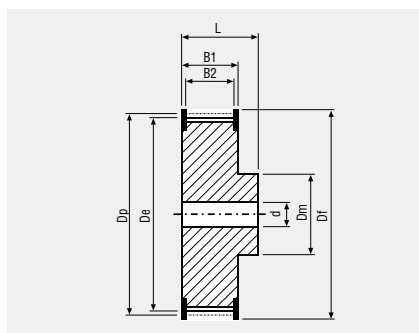


- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Minimum diameters according above table



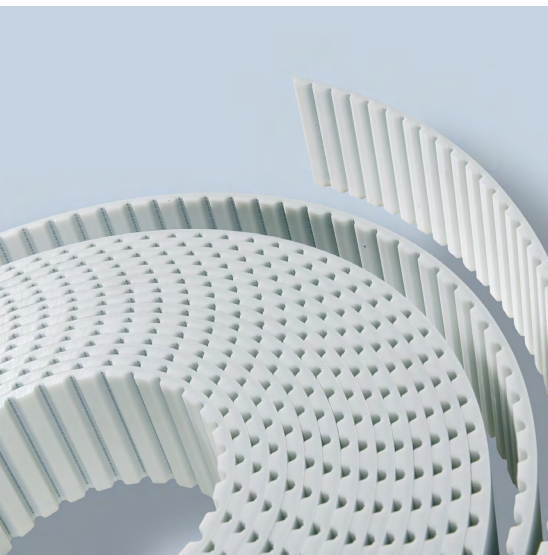
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
25	79,58	77,73
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01

N° TEETH	DP	DE
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14



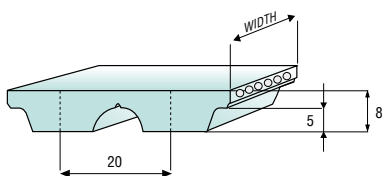
MEGALINEAR

AT20 OPEN-ENDED

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 length tolerance	+0/- 0,8 mm/m
Standard roll length	100 m
Belt options on request with a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound AVAF 60/70/85 ShA APL Fishbone Ribbed Cleats

TOOTH PROFILE ACCORDING TO ISO 17396



For different back coating materials see on page 134

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

CORD MATERIAL	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

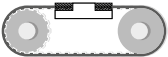
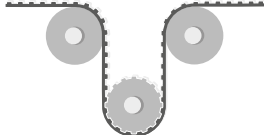
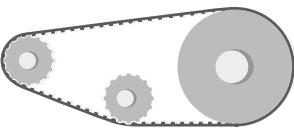
MEGALINEAR



MEGALINEAR

AT20 OPEN-ENDED

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

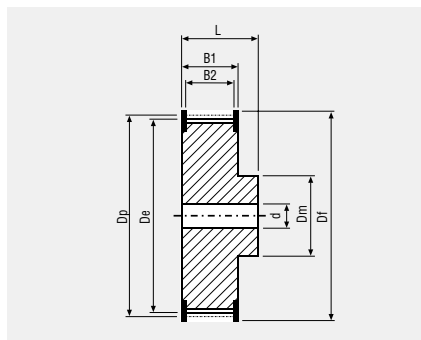
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

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

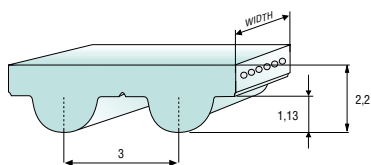
MTD3 OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Transparent FDA compound

For different back coating materials see on page 134

TOOTH PROFILE ACCORDING TO ISO 13050



TOOTH RESISTANCE

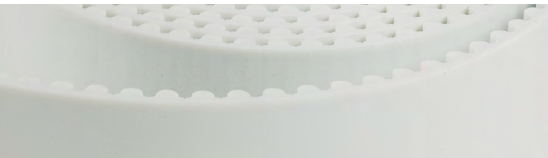
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	23	23	22	22	22	22	21	20	20	19	18	17	16	15	13	12	11	9

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

TRACTION RESISTANCE

CORD MATERIAL	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

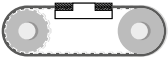
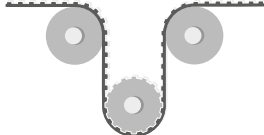
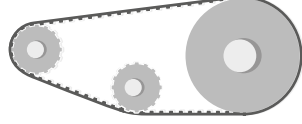
Average values

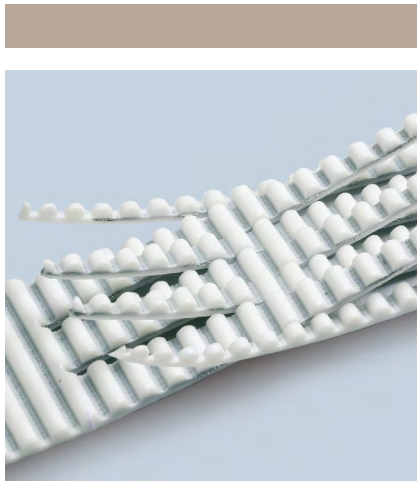


MEGALINEAR

MTD3 OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	20	20 30	20 30

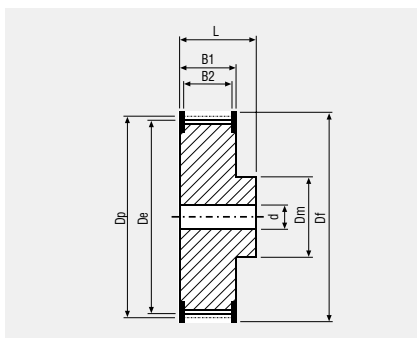


JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
20	19,10	18,34
21	20,05	19,29
22	21,01	20,25
24	22,92	22,16
26	24,83	24,07
28	26,74	25,98
30	28,65	27,89

N° TEETH	DP	DE
32	30,56	29,80
36	34,38	33,62
40	38,20	37,44
44	42,02	41,25
48	45,84	45,07
60	57,30	56,53
72	68,75	67,99



MEGALINEAR

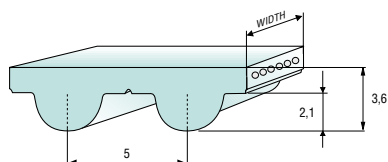
MTD5 OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Cleats

For different back coating materials see on page 134

TOOTH PROFILE ACCORDING TO ISO 13050



TOOTH RESISTANCE

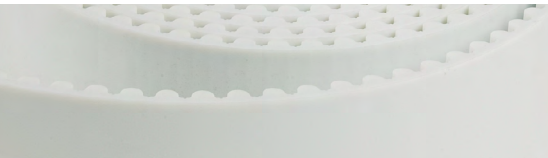
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm)	34	34	33	33	33	32	31	30	29	28	26	25	23	21	19	17	16	13

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

TRACTION RESISTANCE

CORD MATERIAL	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	—

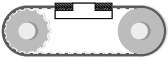
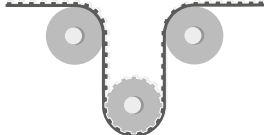
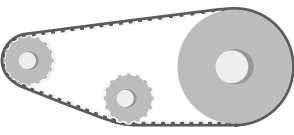
Average values



MEGALINEAR

MTD5 OPEN-ENDED

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:

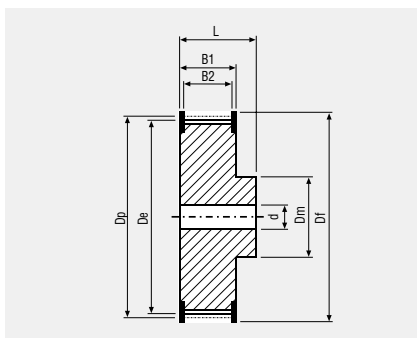


JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



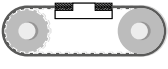
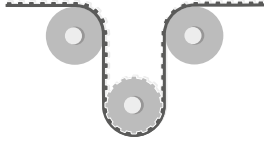
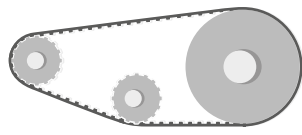
N° TEETH	DP	DE
16	25,46	24,32
18	28,65	27,50
20	31,83	30,69
21	33,42	32,28
22	35,01	33,87
24	38,20	37,05
26	41,38	40,24
28	44,56	43,42

N° TEETH	DP	DE
30	47,75	46,60
32	50,93	49,79
36	57,30	56,15
40	63,66	62,52
44	70,03	68,89
48	76,39	75,25
60	95,49	94,35
72	114,59	113,45

MEGALINEAR

MTD14 OPEN-ENDED

FLEXION RESISTANCE

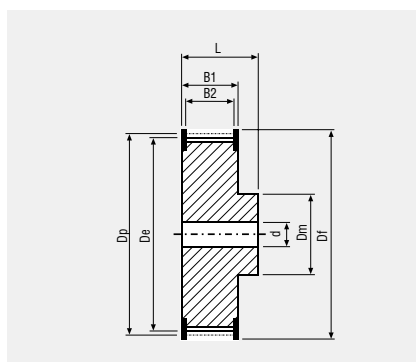
			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	26	28 180	26 120
Kevlar® cords	26	28 180	26 120

JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
26	115,92	113,13
28	124,78	121,98
29	129,23	126,44
30	133,69	130,90
32	142,60	139,81
34	151,51	148,72
36	160,43	157,68
38	169,34	166,60
40	178,25	175,49
44	196,08	193,28
48	213,90	211,11

N° TEETH	DP	DE
56	249,55	246,76
64	285,21	282,41
72	320,86	318,06
80	356,51	353,71
90	401,07	398,28
112	499,11	496,32
144	641,71	638,92
168	748,66	745,87
192	855,62	852,82
216	962,57	959,76



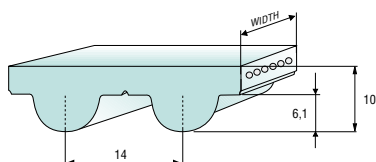
MEGALINEAR

MTD14 XHP2 OPEN-ENDED

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	606	881	1377	1873	2478

Standard compound	black polyurethane thermoplastic 92 ShA
Standard back cover	none
Standard tooth cover	black nylon 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 TO
ISO 13050



TOOTH RESISTANCE

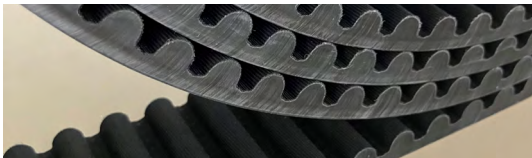
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
F _{p spec} (N/cm)	157	154	152	149	147	144	133	125	118	113	102	95	85	70	58	45	34

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

TRACTION RESISTANCE

CORD MATERIAL	BELT WIDTH (mm)	40	55	85	115	150
Steel	Max Traction Load (N)	21180	33345	52105	76935	101825
	Breaking Strength (N)	87120	126720	198000	269280	356400
	Elongation at MTL (mm/m)	4	4	4	4	4

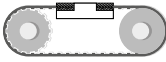
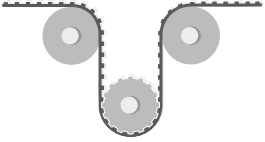
Average values

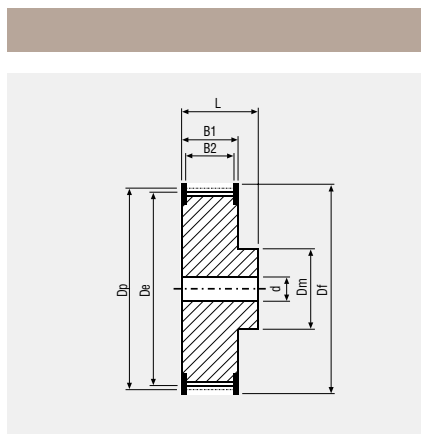


MEGALINEAR

MTD14 XHP2 OPEN-ENDED

FLEXION RESISTANCE

		
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	32	34 250



PULLEYS

THERE ARE SPECIAL REQUIREMENTS FOR PULLEYS WITH LESS THAN 44 TEETH. PLEASE CONTACT MEGADYNE' STAFF FOR MORE INFORMATION.

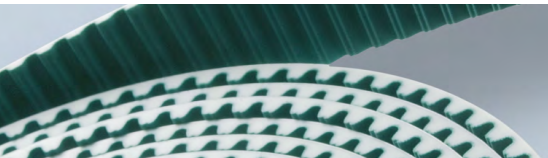
N° TEETH	DP	DE
32	142,60	139,81
34	151,52	148,73
36	160,43	157,64
38	169,34	166,55
40	178,25	175,46
44	196,08	193,29
48	213,90	211,11
56	249,55	246,76
64	285,20	282,41

N° TEETH	DP	DE
72	320,86	318,07
80	356,51	353,72
90	401,07	398,28
112	499,11	496,32
144	641,71	638,92
168	748,66	745,87
192	855,61	852,82
216	962,57	959,78

TYPICAL BELT APPLICATION



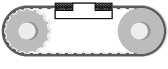
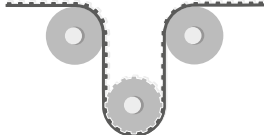
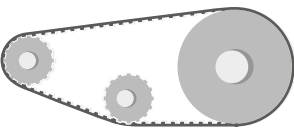
MEGALINEAR



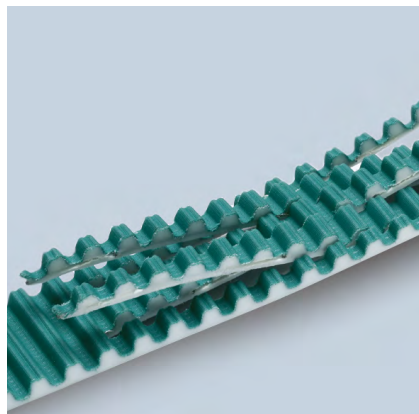
MEGALINEAR

RPP8 OPEN-ENDED

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

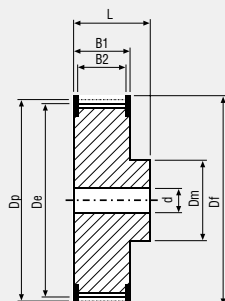
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

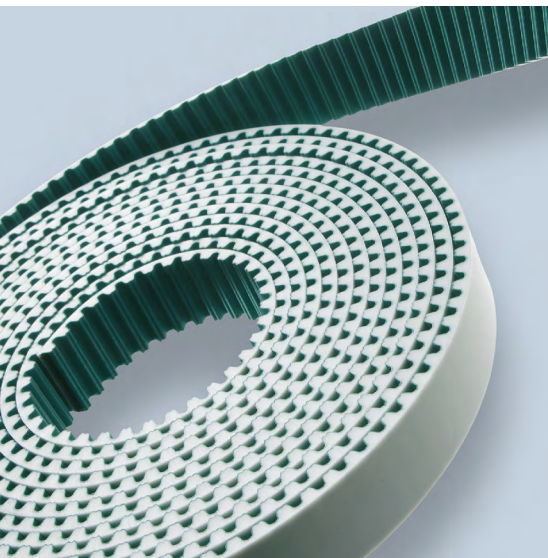
PULLEYS

THERE ARE SPECIAL REQUIREMENTS FOR PULLEYS WITH LESS THAN 44 TEETH. PLEASE CONTACT MEGADYNE' STAFF FOR MORE INFORMATION.



N° TEETH	DP	DE
18	45,86	44,49
22	56,02	54,65
24	61,12	59,74
26	66,21	64,84
28	71,30	69,93
30	76,39	75,02
32	81,49	80,12
34	86,58	85,21
36	91,67	90,30
38	96,77	95,39
40	101,86	100,49

N° TEETH	DP	DE
44	112,04	110,67
48	122,23	120,86
54	137,51	136,14
64	162,97	161,60
72	183,35	181,97
80	203,72	202,35
90	229,18	227,81
112	285,20	283,83
144	366,69	365,32
168	427,81	426,44
192	488,92	487,55



MEGALINEAR

RPP14 OPEN-ENDED

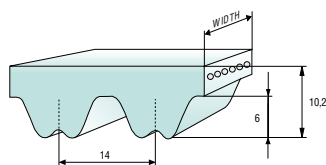
STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	505	610	1080	1465	1958

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
HP cord length tolerance	+0/- 0,8 mm/m
Standard roll length	100 m

Belt options on request with a minimum quantity	Nylon fabric back Antistatic nylon fabric AVAF 60/70/85 ShA APL Fishbone Ribbed Cleats
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For different back coating materials see on page 134

TOOTH PROFILE ACCORDING TO ISO 13050



TOOTH RESISTANCE

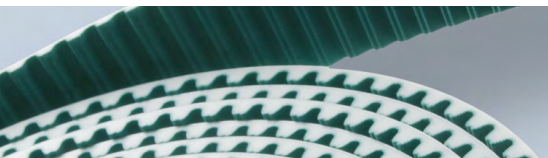
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000
F _{p spec} (N/cm)	140	137	135	133	131	128	118	111	105	101	91	84	75	62	52	40	30

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

TRACTION RESISTANCE

CORD MATERIAL	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

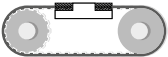
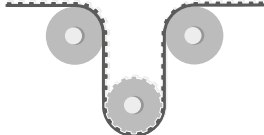
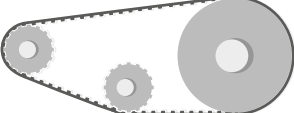
Average values



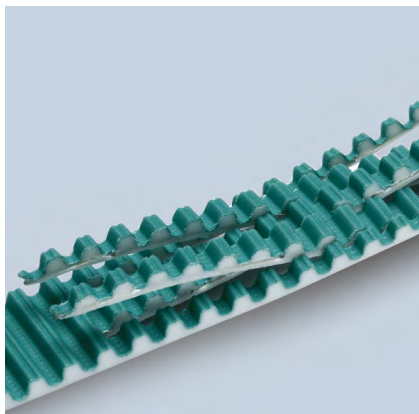
MEGALINEAR

RPP14 OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	32	34 250	32 145

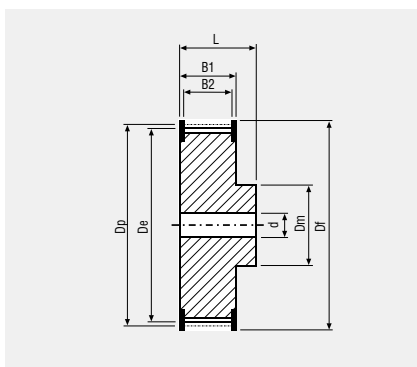
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

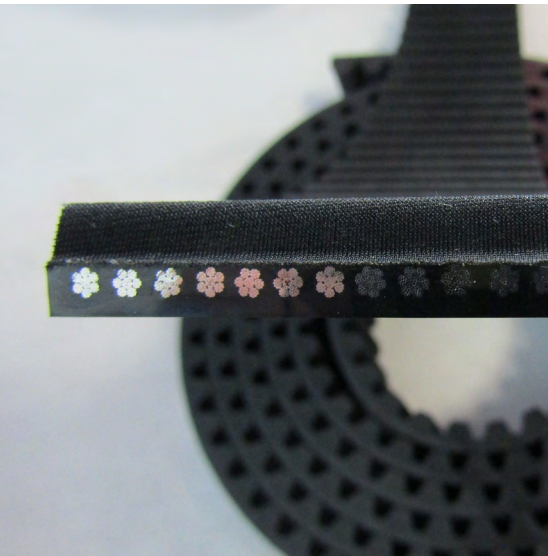
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
32	142,60	139,81
34	151,52	148,73
36	160,43	157,64
38	169,34	166,55
40	178,25	175,46
44	196,08	193,29
48	213,90	211,11
56	249,55	246,76
64	285,20	282,41

N° TEETH	DP	DE
72	320,86	318,07
80	356,51	353,72
90	401,07	398,28
112	499,11	496,32
144	641,71	638,92
168	748,66	745,87
192	855,61	852,82
216	962,57	959,78



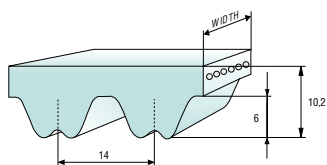
MEGALINEAR

RPP14 XHP2 OPEN-ENDED

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	635	924	1443	1963	2598

Standard compound	black polyurethane thermoplastic 92 ShA
Standard back cover	none
Standard tooth cover	black nylon 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 TO 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)	154	151	149	146	144	141	130	122	116	111	100	93	83	68	57	44	33

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

TRACTION RESISTANCE

CORD MATERIAL	BELT WIDTH (mm)	40	55	85	115	150
Steel	Max Traction Load (N)	21180	33345	52105	76935	101825
	Breaking Strength (N)	87120	126720	198000	269280	356400
	Elongation at MTL (mm/m)	4	4	4	4	4

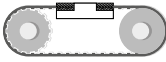
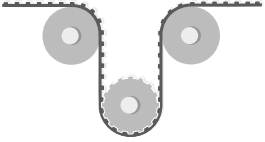
Average values

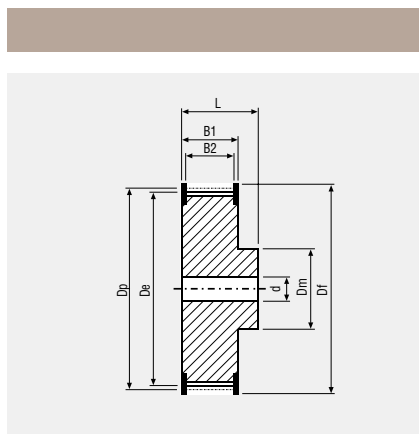


MEGALINEAR

RPP14 XHP2 OPEN-ENDED

FLEXION RESISTANCE

		
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	32	34 250



PULLEYS

THERE ARE SPECIAL REQUIREMENTS FOR PULLEYS WITH LESS THAN 44 TEETH. PLEASE CONTACT MEGADYNE' STAFF FOR MORE INFORMATION.

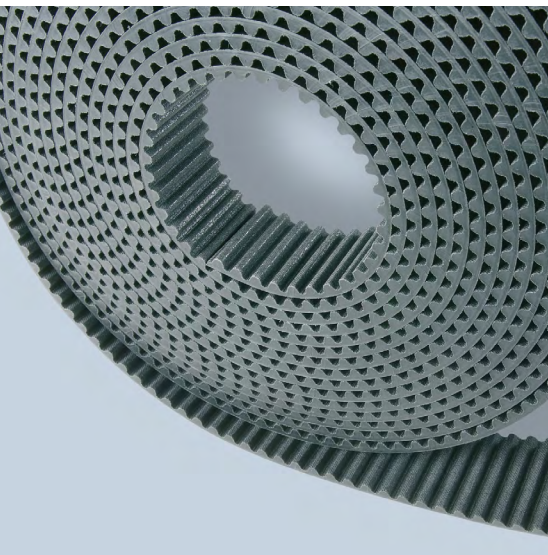
N° TEETH	DP	DE
32	142,60	139,81
34	151,52	148,73
36	160,43	157,64
38	169,34	166,55
40	178,25	175,46
44	196,08	193,29
48	213,90	211,11
56	249,55	246,76
64	285,20	282,41

N° TEETH	DP	DE
72	320,86	318,07
80	356,51	353,72
90	401,07	398,28
112	499,11	496,32
144	641,71	638,92
168	748,66	745,87
192	855,61	852,82
216	962,57	959,78

TYPICAL BELT APPLICATION



MEGALINEAR



MEGALINEAR

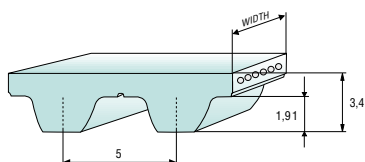
STD5 OPEN-ENDED

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 a minimum quantity	Nylon fabric back AVAFC 60/70/85 ShA APL Cleats

For different back coating materials see on page 134

TOOTH PROFILE ACCORDING TO 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

CORD MATERIAL	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

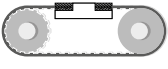
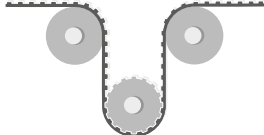
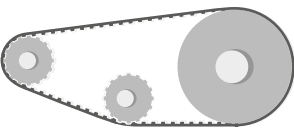
Average values



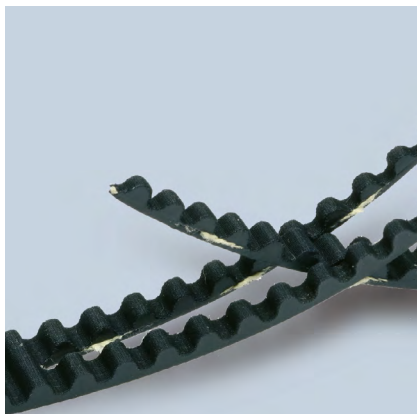
MEGALINEAR

STD5 OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	12	13 60	12 20

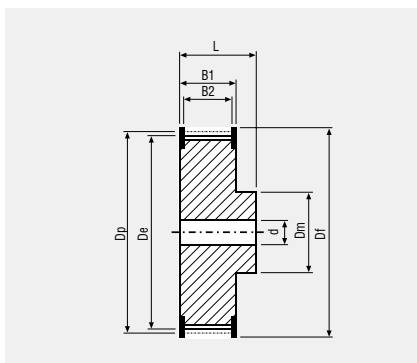
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
12	19,10	18,14
14	22,29	21,32
15	23,88	22,91
16	25,47	24,50
18	28,66	27,69
20	31,84	30,87
22	35,03	34,05
24	38,21	37,24
26	41,40	40,42

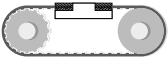
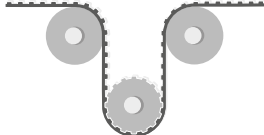
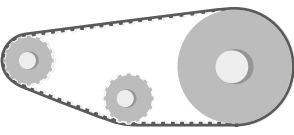
N° TEETH	DP	DE
28	44,58	43,60
30	47,77	46,79
32	50,95	49,79
36	57,32	56,34
40	63,69	62,70
44	70,06	69,07
48	76,43	75,43
60	95,54	94,53
72	114,64	113,63



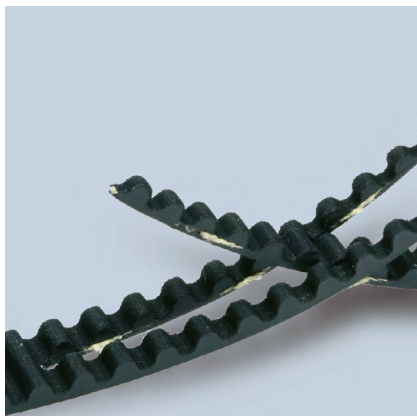
MEGALINEAR

STD8 OPEN-ENDED

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

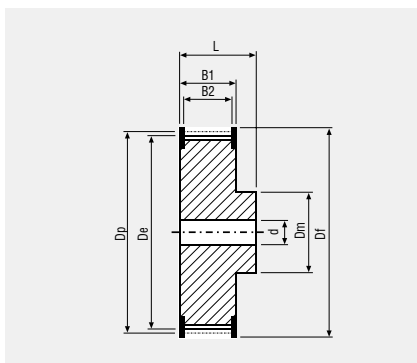
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

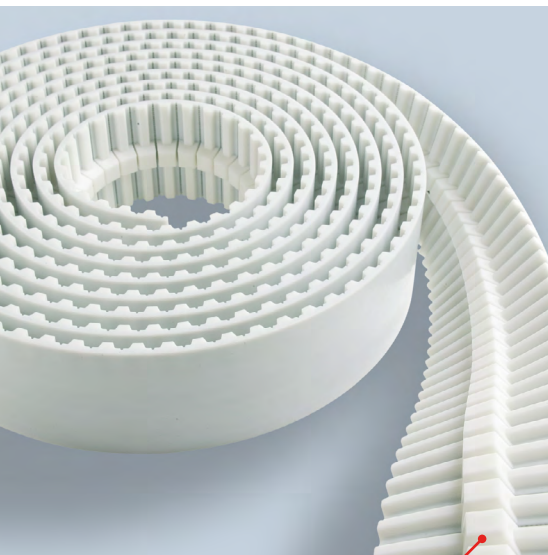
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
22	56,05	54,65
24	61,14	59,75
26	66,24	64,84
28	71,33	69,93
30	76,43	75,02
32	81,52	80,12
34	86,62	85,21
36	91,71	90,30
38	96,81	95,40
40	101,91	100,49
44	112,10	110,68

N° TEETH	DP	DE
48	122,29	120,86
56	142,67	141,23
64	163,05	161,60
72	183,43	181,98
80	203,82	202,35
90	229,29	227,81
112	285,35	283,84
144	366,87	365,32
168	428,02	426,44
192	489,17	487,55



MEGALINEAR

HG OPEN-ENDED

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

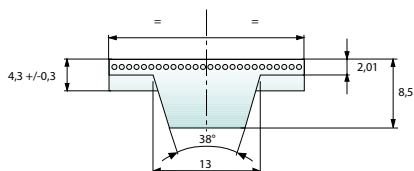
Belt options on request
with minimum quantity

Nylon fabric back
Nylon fabric teeth*
Antistatic nylon fabric
Transparent FDA compound
Cleats

For different back coating materials see on page 134

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

NOTCHED GUIDE



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

CORD MATERIAL	BELT WIDTH (mm)	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

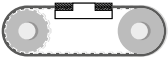
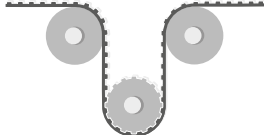
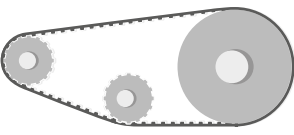
Average values



MEGALINEAR

HG OPEN-ENDED

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

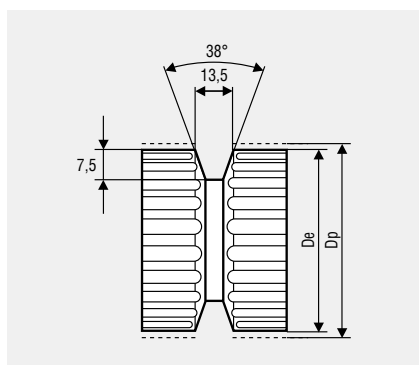
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

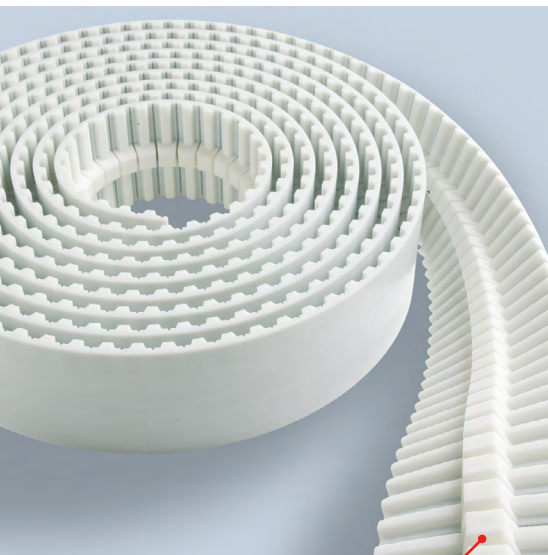
PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)

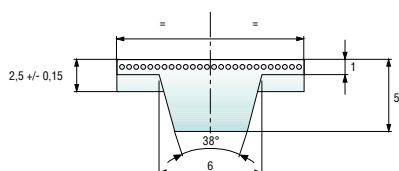


N° TEETH	DP	DE
20	80,85	79,48
22	88,94	87,57
24	97,02	95,65
26	105,11	103,74
28	113,19	111,82
30	121,28	119,91
32	129,36	127,99

N° TEETH	DP	DE
34	137,45	136,08
36	145,53	144,16
38	153,62	152,25
40	161,70	160,33
44	177,87	176,50
48	194,04	192,67
60	242,55	241,18



NOTCHED GUIDE



MEGALINEAR

TG5 OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric Transparent FDA compound Cleats

For different back coating materials see on page 134

* 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

CORD MATERIAL	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

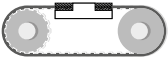
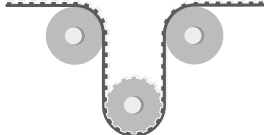
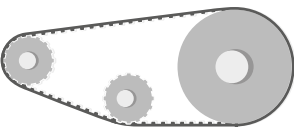
Average values



MEGALINEAR

TG5 OPEN-ENDED

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

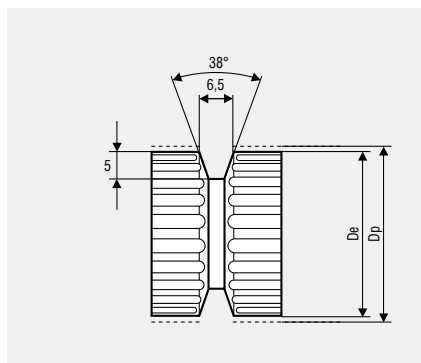
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



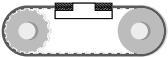
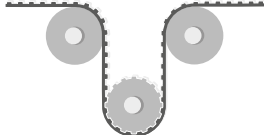
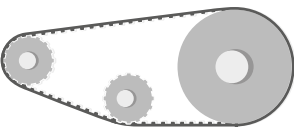
N° TEETH	DP	DE
25	39,79	38,96
27	42,97	42,14
30	47,75	46,92
32	50,93	50,1
36	57,3	56,47
40	63,66	62,93
48	76,39	75,57
60	95,49	94,67



MEGALINEAR

TG10 OPEN-ENDED

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

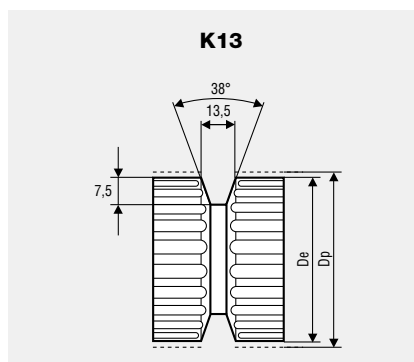
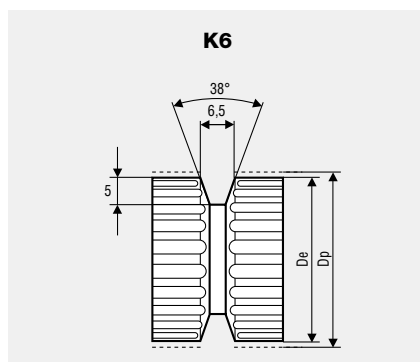
JOINED BELT INFORMATION:



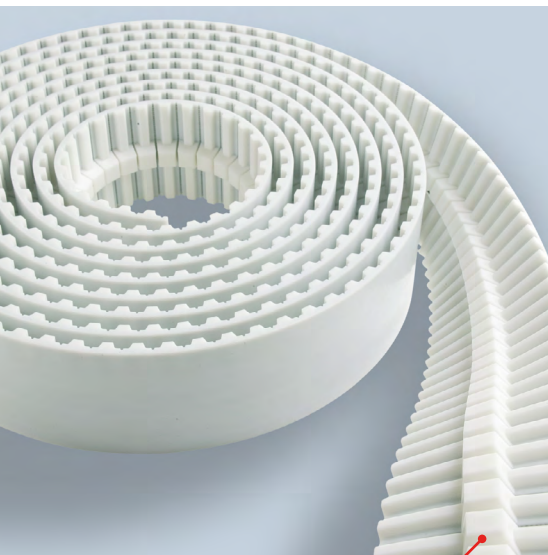
- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 134

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



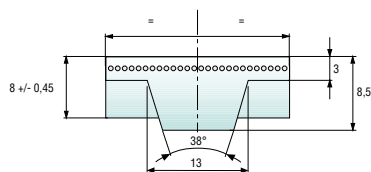
MEGALINEAR

TG20 OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric Transparent FDA compound Cleats

NOTCHED GUIDE



For different back coating materials see on page 134

*Nylon fabric teeth including guide (fabric on complete width) are standard version.

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

CORD MATERIAL	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

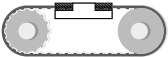
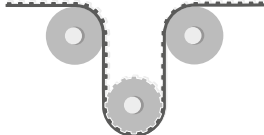
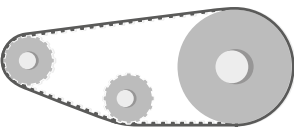
Average values



MEGALINEAR

TG20 OPEN-ENDED

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

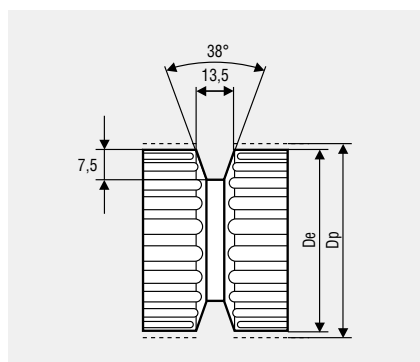
JOINED BELT INFORMATION:



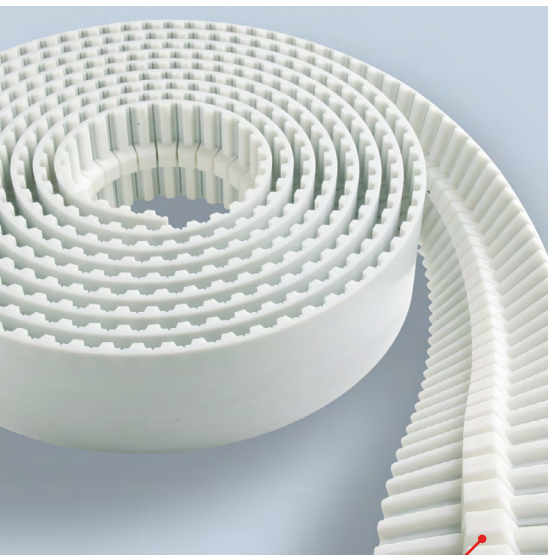
- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Rolls with NFT, and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 134

PULLEYS

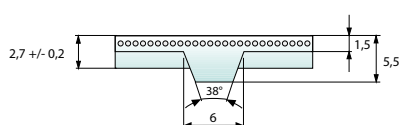
(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
30	190,99	188,13
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



NOTCHED GUIDE



MEGALINEAR

ATG5 OPEN-ENDED

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	+/- 0,5 mm
Standard length tolerance	+/- 0,8 mm/m
Standard roll length	100 m
Belt options on request with a minimum quantity	Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric Transparent FDA compound AVAF 60/70/85 ShA Cleats

For different back coating materials see on page 134

*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

CORD MATERIAL	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

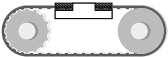
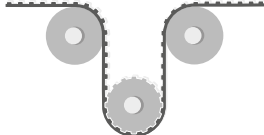
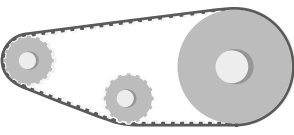
Average values



MEGALINEAR

ATG5 OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN}	Z_{MIN}
Standard steel cords	25	28	25
		IDLER MIN DIA (mm)	IDLER MIN DIA (mm)
		100	80

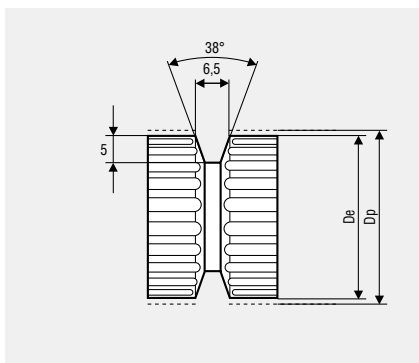
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



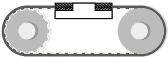
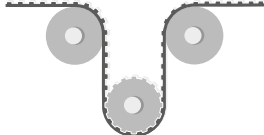
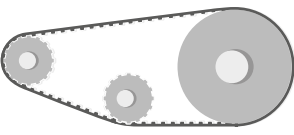
N° TEETH	DP	DE
25	39,79	38,96
27	42,97	42,14
30	47,75	46,92
32	50,93	50,10
36	57,30	56,47
40	63,66	62,93
48	76,39	75,57
60	95,49	94,67



MEGALINEAR

ATG10 OPEN-ENDED

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

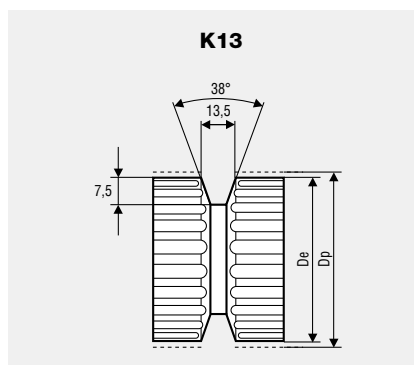
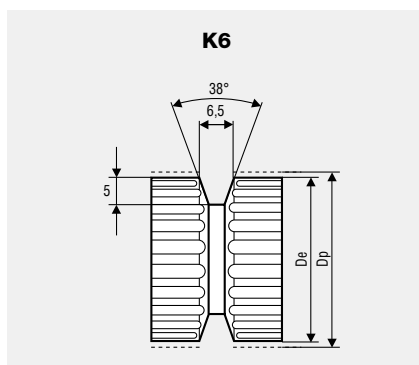
JOINED BELT INFORMATION:



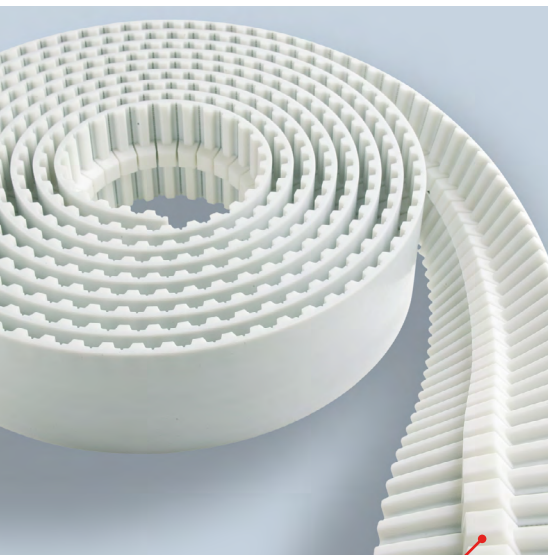
- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 134

PULLEYS

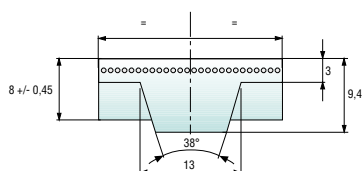
(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



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



NOTCHED GUIDE



MEGALINEAR

ATG20 OPEN-ENDED

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 a minimum quantity	Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric Transparent FDA compound AVAFC 60/70/85 ShA Cleats

For different back coating materials see on page 134

*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

CORD MATERIAL	BELT WIDTH (mm)	75	150
Steel	Max Traction Load (N)	18210	40530
	Breaking Strength (N)	69200	141860
	Elongation at MTL (mm/m)	4	4

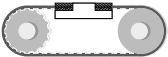
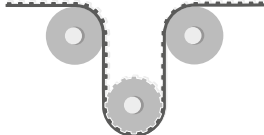
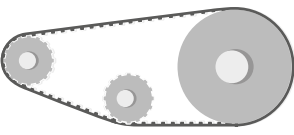
Average values



MEGALINEAR

ATG20 OPEN-ENDED

FLEXION RESISTANCE

			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	30	34 180	30 160

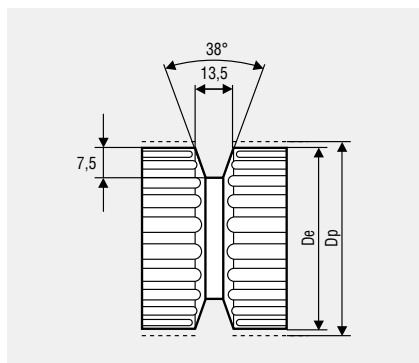
JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS

(FOR MORE DETAILS, PLEASE SEE OUR PULLEYS CATALOGUE)



N° TEETH	DP	DE
30	190,99	188,13
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

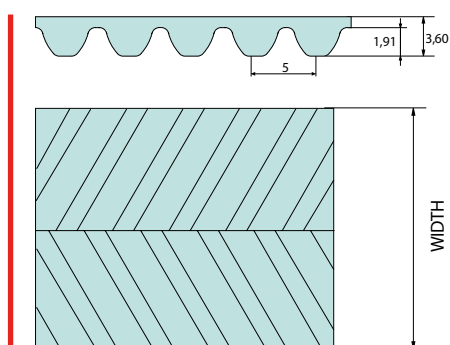
QST5 OPEN-ENDED

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

For different back coating materials see on page 134

Please ask about feasibility to our customer service or OEM team



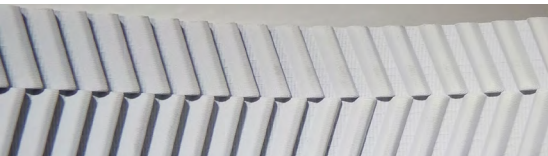
TOOTH RESISTANCE											
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750
F _{p spec} (N/cm)	38	37	37	36	36	35	34	33	32	31	30

TOOTH RESISTANCE											
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			
CORD MATERIAL	BELT WIDTH (mm)	12	24
Steel	Max Traction Load (N)	1135	2497
	Breaking Strength (N)	4200	9240
	Elongation at MTL (mm/m)	4	4

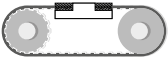
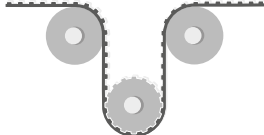
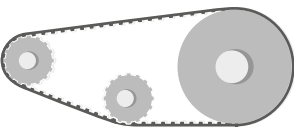
Average values



MEGALINEAR

QST5 OPEN-ENDED

FLEXION RESISTANCE

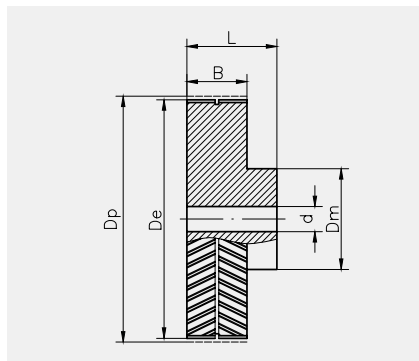
			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	16	25 60	16 30

JOINED BELT INFORMATION:



- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

PULLEYS



N° TEETH	DP	DE
16	25,46	24,32
18	28,65	27,5
20	31,83	30,69
21	33,42	32,28
22	35,01	33,87
24	38,2	37,05
26	41,38	40,24
28	44,56	43,42

N° TEETH	DP	DE
30	47,75	46,6
32	50,93	49,79
36	57,3	56,15
40	63,66	62,52
44	70,03	68,89
48	76,39	75,25
60	95,49	94,35
72	114,59	113,45



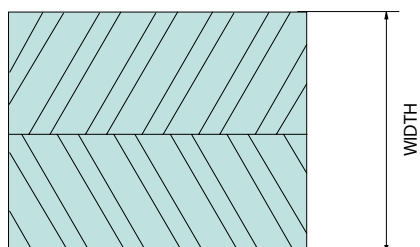
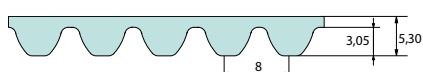
MEGALINEAR

QST8 OPEN-ENDED

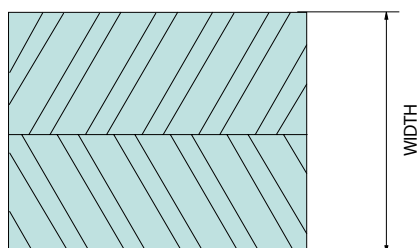
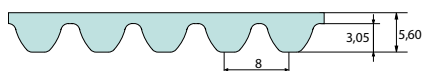
STANDARD WIDTHS (mm)	16	25	32	50
Weight (gr/m)	85	145	180	300

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

STEEL CORDS



HP



For different back coating materials see on page 134

Please ask about feasibility to our 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)	85	83	82	81	80	79	75	71	68	66	61

TOOTH RESISTANCE

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

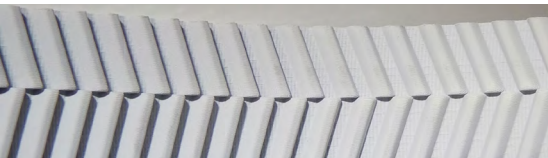
HP cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

CORD MATERIAL	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

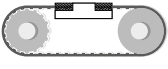
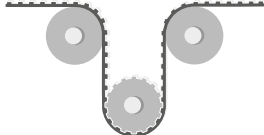
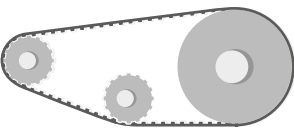
**HP VERSION Under construction

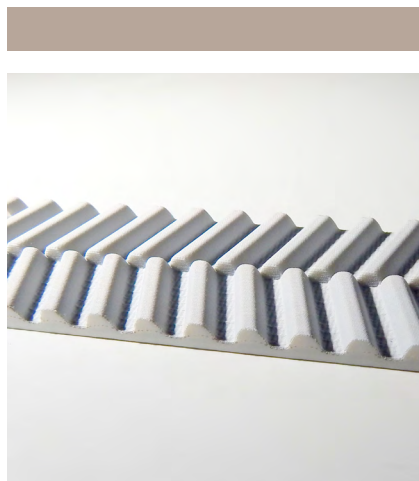


MEGALINEAR

QST8 OPEN-ENDED

FLEXION RESISTANCE

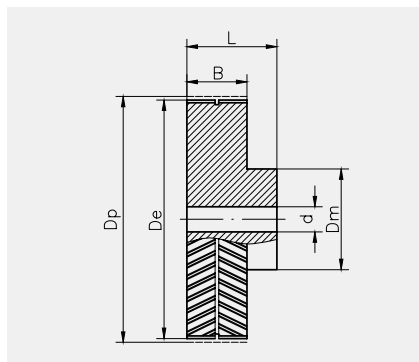
			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	20	30 120	20 50
High-power cords	30	32 150	30 80



JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

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	71,3	69,93
30	76,4	75,03
32	81,49	80,12
34	86,58	85,21

N° TEETH	DP	DE
36	91,68	90,3
38	96,77	95,4
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



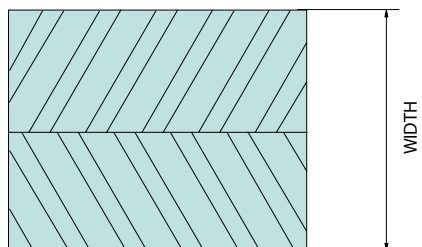
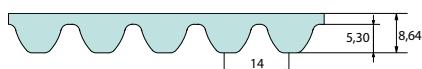
MEGALINEAR

QST14 OPEN-ENDED

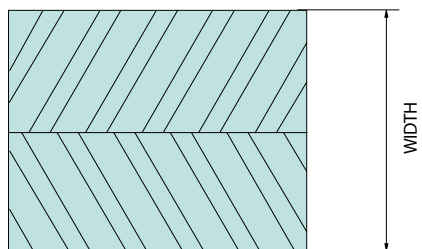
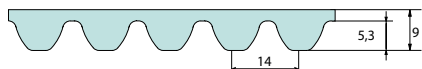
STANDARD WIDTHS (mm)	35	52,5	70	105
Weight (gr/m)	400	600	800	1200

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

STEEL CORDS



XHP CORDS



For different back coating materials see on page 134

Please ask about feasibility to our customer service or OEM team

TOOTH RESISTANCE

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

TOOTH RESISTANCE

RPM (1/min)	750	1000	1250	1500	1750	2000	2500	3000	3500	4000
F _{p spec} (N/cm)	105	96	89	83	77	72	64	57	50	47

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

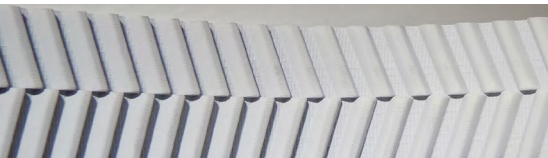
XHP cords minimum suggested number of teeth in clamp 10

TRACTION RESISTANCE

CORD MATERIAL	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

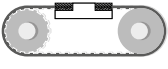
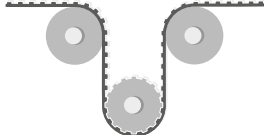
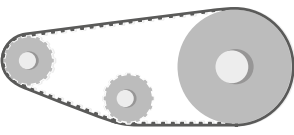
**XHP VERSION Under construction

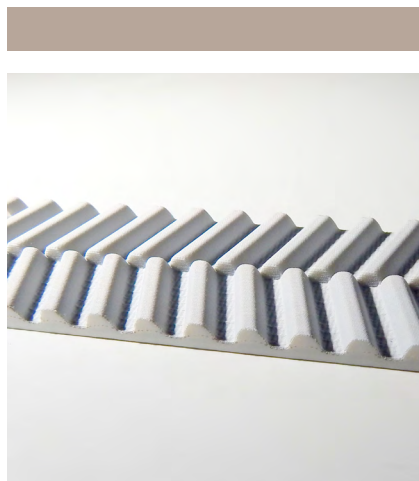


MEGALINEAR

QST14 OPEN-ENDED

FLEXION RESISTANCE

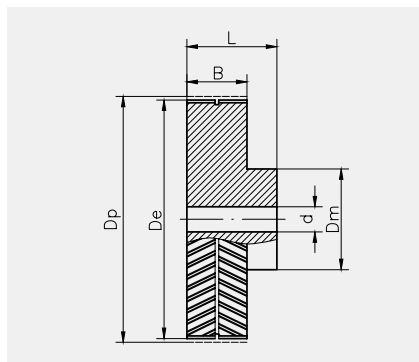
			
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	32	32 200	32 140
Extra high-power cords	32	32 200	32 140



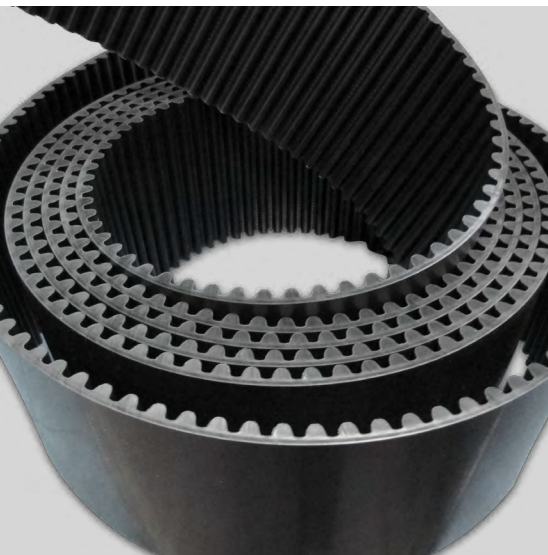
JOINED BELT INFORMATION:

- Minimum splice length 900 mm
- Traction and tooth resistance = 50% less than open-ended
- 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 134

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

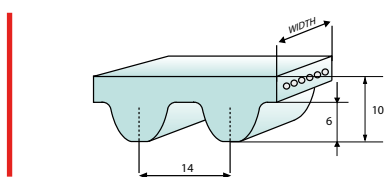


MEGALINEAR

GW14 OPEN-ENDED

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 belt must be well pre-tensioned.



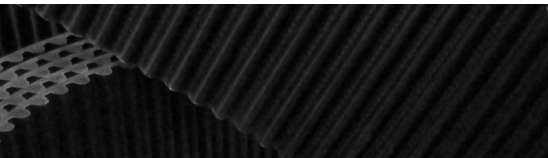
TOOTH RESISTANCE										
RPM (1/min)	0	20	40	60	80	100	200	300	400	500
F _{p spec} (N/cm)	155	152	149	147	145	142	131	123	116	112

Linear speed over 7m/s, please contact our technical department

Minimum suggested number of teeth in clamp for linear movement: 13

TRACTION RESISTANCE					
CORD MATERIAL	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

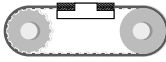
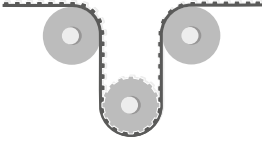
Average values



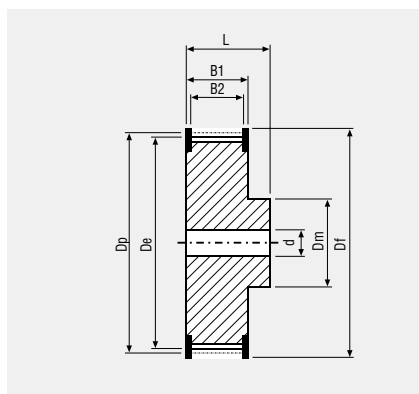
MEGALINEAR

GW14 OPEN-ENDED

FLEXION RESISTANCE

		
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	32	36 250

PULLEYS



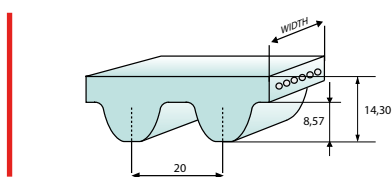
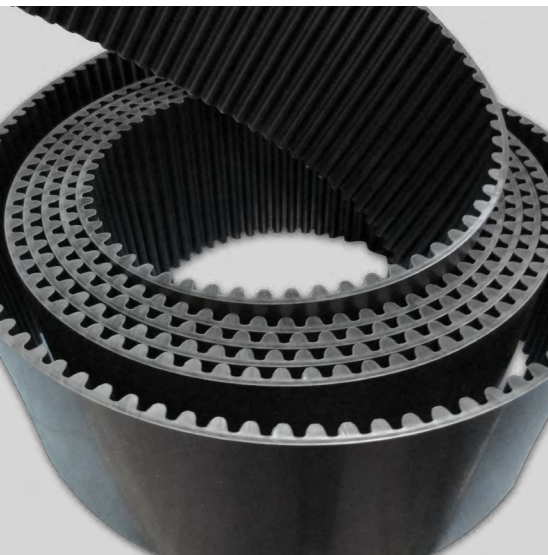
N° TEETH	DP	DE
32	142,6	139,8
34	151,52	148,72
36	160,43	157,63
38	169,34	166,54
40	178,25	175,45
44	196,08	193,28
48	213,9	211,1
56	249,56	246,76
64	285,21	282,41
72	320,86	318,06
80	356,51	353,71
90	401,07	398,27

*Suggestions: material steel.
Use only pulleys with GW profile.
Flanges 3,5mm fixed with screws.
B2= belt's width+16 mm.*

TYPICAL APPLICATION: AUTOMATIC WAREHOUSE



MEGALINEAR



MEGALINEAR

GW20 OPEN-ENDED

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 belt must be well pre-tensioned.

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

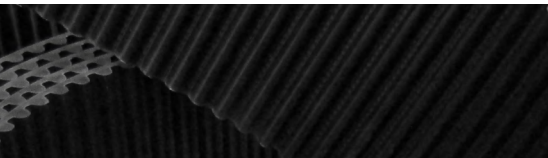
Linear speed over 7m/s, please contact our technical department

Minimum suggested number of teeth in clamp for linear movement: 15

TRACTION RESISTANCE

CORD MATERIAL	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

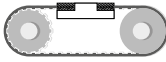
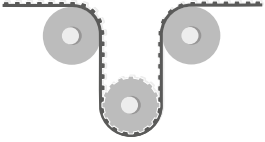
Average values



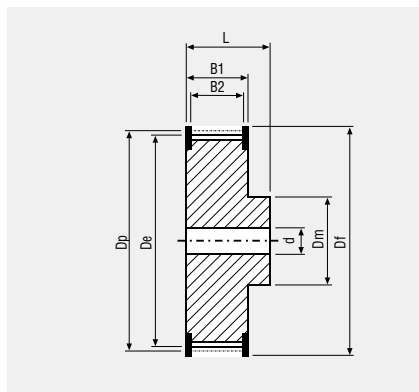
MEGALINEAR

GW20 OPEN-ENDED

FLEXION RESISTANCE

		
	Z_{MIN}	Z_{MIN} IDLER MIN DIA (mm)
Standard steel cords	38	44 380

PULLEYS



N° TEETH	DP	DE
38	241,92	237,6
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	509,3	504,98

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

TYPICAL APPLICATION: AUTOMATIC WAREHOUSE



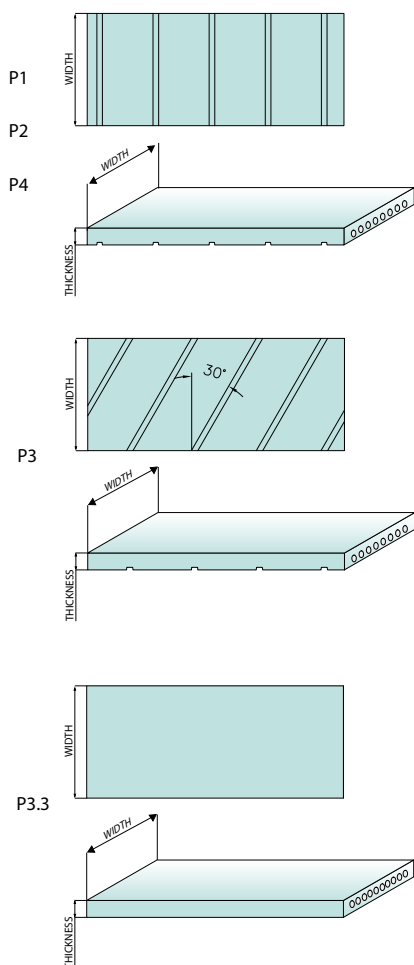


MEGALINEAR

FLAT OPEN-ENDED

	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 a 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)

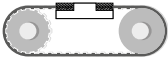
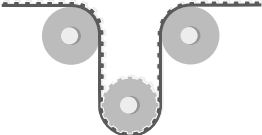
TRACTION RESISTANCE							
CORD MATERIAL	BELT WIDTH (mm)	10 P1	20 P1	25 P2	50 P2	75 P2	100 P2
Steel	Max Traction Load (N)	490	980	3800	8075	13000	17500
	Breaking Strength (N)	1965	3935	15200	32300	49400	66500
	Elongation at MTL (mm/m)	4	4	4	4	4	4
HP	Max Traction Load (N)	–	–	5190	11245	18210	24580
	Breaking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

TRACTION RESISTANCE								
CORD MATERIAL	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

MEGALINEAR

FLAT OPEN-ENDED

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

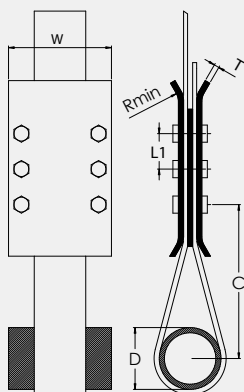
FIXING PLATES

DIMENSION OF THE FIXING PLATES

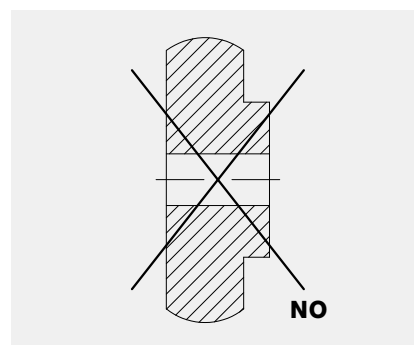
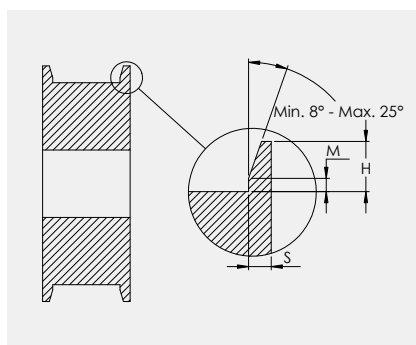
Clamping plates dimensions (mm)						Suggested clamping plate width W (mm)								
Belt type	L1	C	D	T	R _{min}	10	20	25	30	50	60	75	100	120
P1	20	25	16	3	10	20	20	30	-	-	-	-	-	-
P2	25	30	20	3	10	-	-	50	-	75	-	100	-	-
P2 HP	25	30	20	3	10	-	-	50	-	75	-	100	-	-
P3	30	75	50	5	25	-	-	-	60	-	90	-	132	160
P4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

SUGGESTION ABOUT THE FIXING SCREW

		Belt width (mm)									
		10	20	25	30	50	60	75	100	120	
Belt type	Screw type	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



FLANGES ACCORDING TO 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

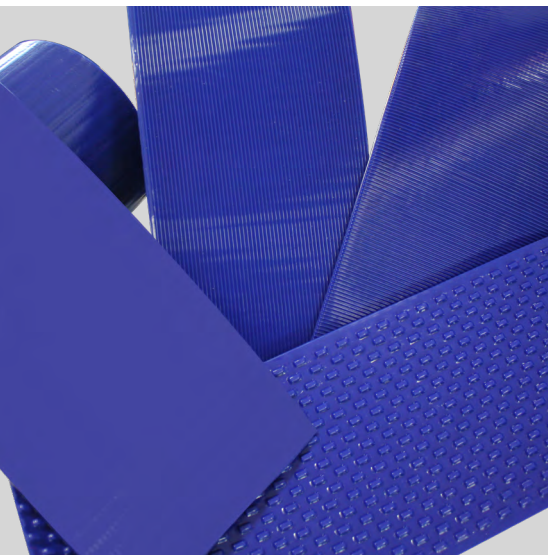
H: minimum height of flanges

S: minimum thickness of flanges

Rounded corner not quoted $R = 0,8$ mm

Suggested material: Aluminium or Zinked steel

Maximum superficial roughness: 1.6 Ra



MEGALINEAR

FC T5

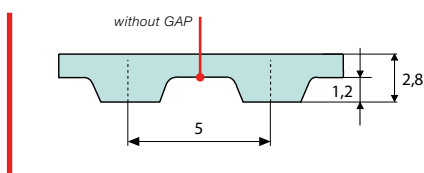
Standard widths (mm)	25	32	50	75	100	150
Width tolerance(mm)	± 0,25	± 0,25	± 0,5	± 0,5	± 0,75	± 0,75

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 materials, in compliance with:

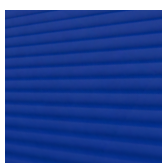
- FDA 21 CFR 177.2600 / 177.105 / 177.1680 (USA)
- USDA - NSF/ANSI/3-A 14159-3 – 2010 Hygienic Design (Meat and Poultry Processing)
- Regulation (EC) n° 1935/2004 (art. 3, art.11, par.5, art.15, art.17) e 1895/2005 and (EU) n° 10/2011
- Belts produced according to the Regulation (EU) n° 2023/2006 GMP (Good Manufacturing Practice).



STANDARD SURFACES	TOTAL THICKNESS	PROFILE HEIGHT	ROLL
SMOOTH (SMT)	2,8 +/- 0,3 mm	0 mm	50 m
LONGITUDINAL RIBBED (LTR)	4,0 +/- 0,3 mm	1,25 mm	50 m
TRANSVERSAL RIBBED (TVR)	4,0 +/- 0,3 mm	1,25 mm	50 m
NOPPEN OVAL (NPO)	5,2 +/- 0,3 mm	2,1 mm	50 m
ROOF (ROF)	n.a.	n.a.	n.a.
SPIKE SMALL (SPS)	4,1 +/- 0,3 mm	1,3 mm	50 m
SPIKE LARGE (SPL)	4,5 +/- 0,3 mm	1,7 mm	50 m
TRUNCATED PYRAMID 5 (TCP05)	4,0 +/- 0,3 mm	1,5 mm	50 m
TRUNCATED PYRAMID 10 (TCP10)	4,0 +/- 0,3 mm	1,5 mm	50 m
TRUNCATED CONE (TCC)	5,6 +/- 0,3 mm	2,6 mm	50 m
LAMELLA (LAM)	n.a.	n.a.	n.a.



SMT



LTR



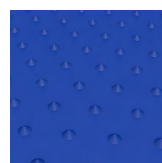
TVR



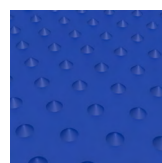
NPO



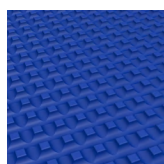
ROF



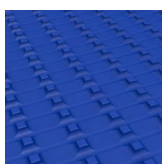
SPS



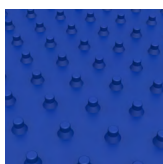
SPL



TCP05



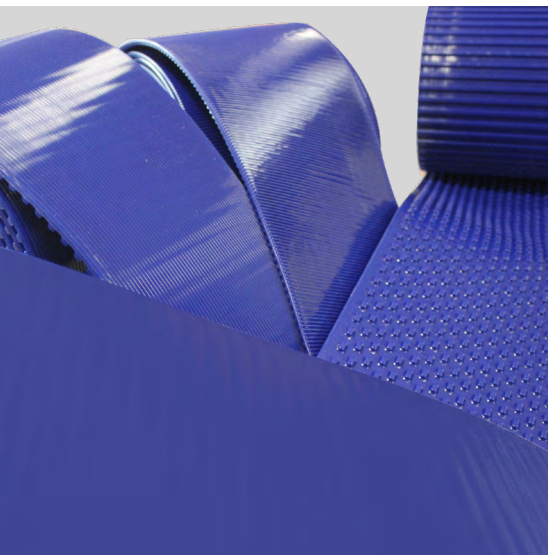
TCP10



TCC



LAM



MEGALINEAR

FC T10

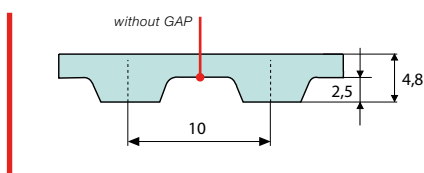
Standard widths (mm)	25	32	50	75	100	150
Width tolerance(mm)	± 0,25	± 0,25	± 0,5	± 0,5	±0,75	± 0,75

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

Belts produced with raw materials, in compliance with:

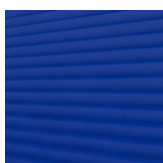
- FDA 21 CFR 177.2600 / 177.105 / 177.1680 (USA)
- USDA - NSF/ANSI/3-A 14159-3 – 2010 Hygienic Design (Meat and Poultry Processing)
- Regulation (EC) n° 1935/2004 (art. 3, art.11, par.5, art.15, art.17) e 1895/2005 and (EU) n° 10/2011
- Belts produced according to the Regulation (EU) n° 2023/2006 GMP (Good Manufacturing Practice).



STANDARD SURFACES	TOTAL THICKNESS	PROFILE HEIGHT	ROLL
SMOOTH (SMT)	4,8 +/- 0,3 mm	0 mm	50 m
LONGITUDINAL RIBBED (LTR)	6,05 +/- 0,3 mm	1,25 mm	50 m
TRANSVERSAL RIBBED (TVR)	6,05 +/- 0,3 mm	1,25 mm	50 m
NOPPEN OVAL (NPO)	7,7 +/- 0,3 mm	2,1 mm	50 m
ROOF (ROF)	6,2 +/- 0,3 mm	1,7 mm	50 m
SPIKE SMALL (SPS)	6,1 +/- 0,3 mm	1,3 mm	50 m
SPIKE LARGE (SPL)	6,5 +/- 0,3 mm	1,7 mm	50 m
TRUNCATED PYRAMID 5 (TCP05)	6,3 +/- 0,3 mm	1,5 mm	50 m
TRUNCATED PYRAMID 10 (TCP10)	6,3 +/- 0,3 mm	1,5 mm	50 m
TRUNCATED CONE (TCC)	7,4 +/- 0,3 mm	2,6 mm	50 m
LAMELLA (LAM)	15 +/- 0,3 mm	10 mm	50 m



SMT



LTR



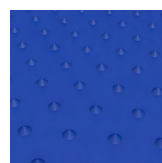
TVR



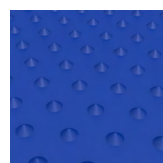
NPO



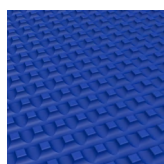
ROF



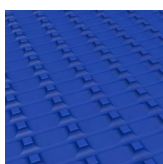
SPS



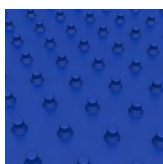
SPL



TCP05



TCP10

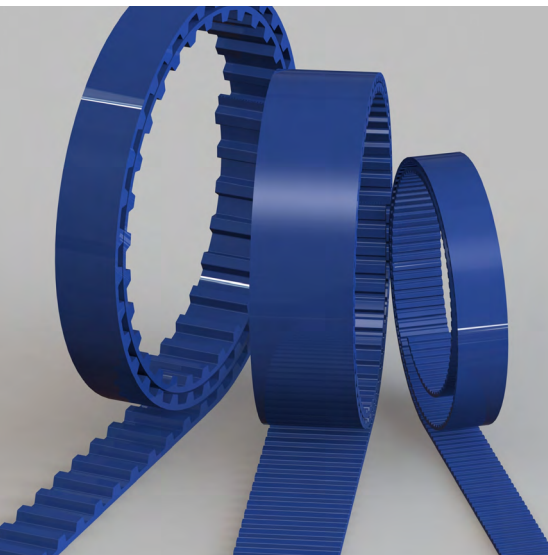


TCC



LAM

MEGALINEAR



MEGALINEAR FC-S

T5, T10, T20

Standard widths (mm) depending on pitches	16	25	32	50	75	100
Width tolerance (mm)	± 0,50	± 0,50	± 0,50	± 0,50	± 0,50	± 0,50

SMOOTH SURFACE

Standard compound	dark blue polyurethane thermoplastic 92 ShA
Standard cords	S and Z torsion Zinked Steel
Standard roll length	50 m, 100 m
Additional feature	no gap, encapsulated cords

Belts produced with raw materials, in compliance with:

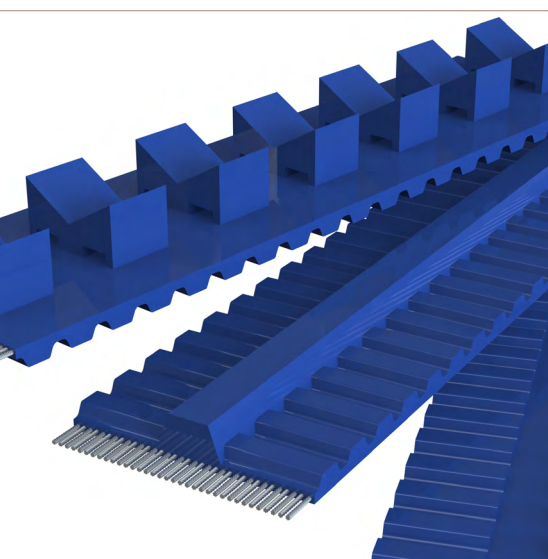
- FDA 21 CFR 177.2600 / 177.1680 (USA)
- Regulation (EC) n° 1935/2004 (art. 3, art.11, par.5, art.15, art.17) and (EU) n° 10/2011
- Belts produced according to the Regulation (EU) n° 2023/2006 GMP (Good Manufacturing Practice).

ROLLS WITH SLITTING LINES AVAILABLE

PROFILE	T5			T10				T20		
Arrangement	6x16	4x25	3x32	6x16	4x25	3x32	2x50	4x25	3x32	2x50

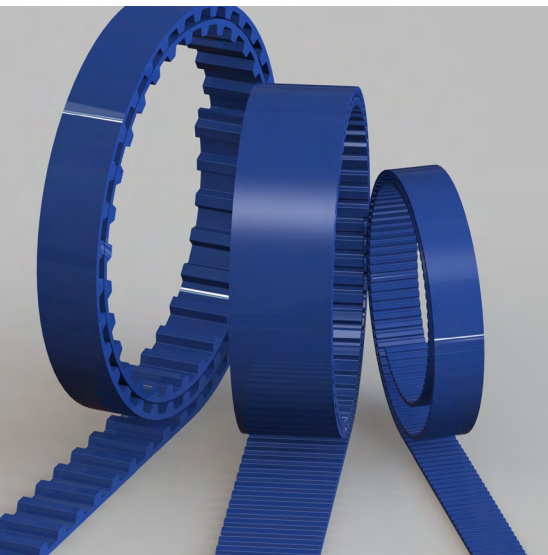
TRACTION RESISTANCE

		T5			T10						T20			
Steel	Belt Width (mm)	16	25	32	16	25	32	50	75	100	25	32	50	100
	Max Traction Load (N)	500	840	1060	1365	2310	2940	4830	7955	10719	3800	4750	8075	17500
	Breaking Strength (N)	2000	3375	4250	5460	9240	11760	19320	30240	40740	15200	19000	32300	66500
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	4	4	4	4	4



FABRICATION CAPABILITIES

Cleats, guides or grind teeth can be added without losing certifications and keep being in compliance with EU and FDA regulations by using exactly the same material as per the base belt if as a welding method will be used high frequency or hot welding technology.



MEGALINEAR FC-S

AT5, AT10, AT20

Standard widths (mm) depending on pitches	16	25	32	50	75	100
Width tolerance (mm)	± 0,50	± 0,50	± 0,50	± 0,50	± 0,50	± 0,75

SMOOTH SURFACE

Standard compound	dark blue polyurethane thermoplastic 92 ShA
Standard cords	S and Z torsion Zinked Steel
Standard roll length	50 m, 100 m
Additional feature	no gap, encapsulated cords

Belts produced with raw materials, in compliance with:

- FDA 21 CFR 177.2600 / 177.1680 (USA)
- Regulation (EC) n° 1935/2004 (art. 3, art.11, par.5, art.15, art.17) and (EU) n° 10/2011
- Belts produced according to the Regulation (EU) n° 2023/2006 GMP (Good Manufacturing Practice).

ROLLS WITH SLITTING LINES AVAILABLE

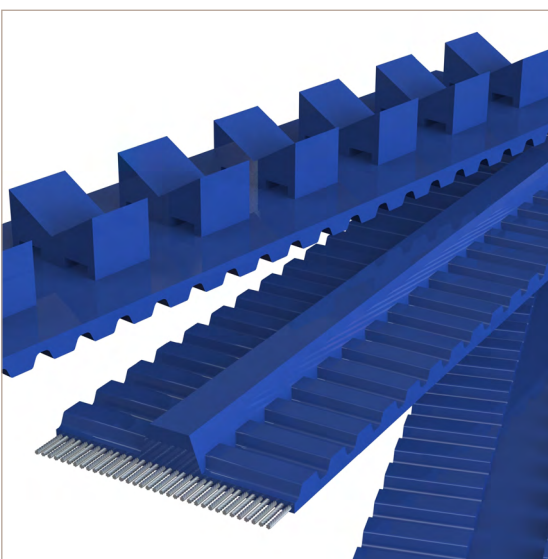
PROFILE	AT5			AT10			AT20		
Arrangement	6x16	4x25	3x32	4x25	3x32	2x50	4x25	2x50	50 + 75

TRACTION RESISTANCE

		AT5			AT10					AT20			
Steel	Belt Width (mm)	16	25	32	25	32	50	75	100	25	50	75	100
	Max Traction Load (N)	1070	1805	2275	3560	4510	7835	12750	17250	5190	11245	18210	24580
	Breaking Strength (N)	4285	7235	9110	14250	18050	31350	48450	65550	20760	44980	69200	93420
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	4	4	4	4

FABRICATION CAPABILITIES

Cleats, guides or grind teeth can be added without losing certifications and keep being in compliance with EU and FDA regulations by using exactly the same material as per the base belt if as a welding method will be used high frequency or hot welding technology.



FIXING PLATES

The fixing plates are used to fix the tail of the open belts. On the customer's request, plates can be delivered with or without fixing holes. As the belt can't be stretched with the fixing plates, we suggest using other tension systems. The plates are delivered in aluminium alloy.

Megadyne's Technical Staff is ready to study special or particular applications.

ALUMINIUM

CLAMPING PLATES FOR IMPERIAL PITCH BELTS

						BELT WIDTH								
Pitch	F	d	B	A	S	25	37	50	75	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

Dimensions in inches

ALUMINIUM

CLAMPING PLATES FOR HTD PITCH BELTS

						BELT WIDTH									
Pitch	F	d	B	A	S	6	9	10	15	20	25	30	40	50	55
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	–
14M*	10	11	9	116	22	–	–	–	–	–	56	–	71	–	86

ALUMINIUM

CLAMPING PLATES FOR METRIC PITCH BELTS

						BELT WIDTH							
Pitch	F	d	B	A	S	6	10	16	20	25	32	50	75
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
T20* AT20*	10	11	10	160	20	–	–	–	–	56	63	81	106

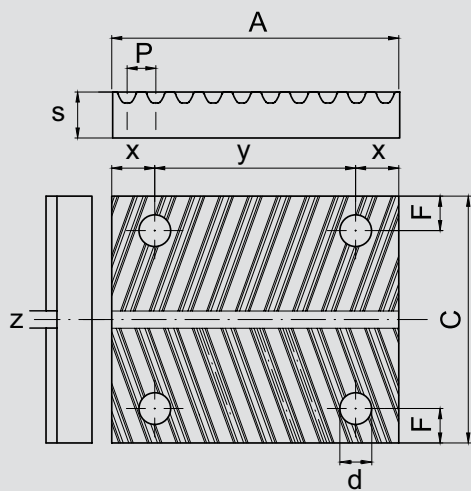
*Available in customized length | Dimensions in mm

ORDER CODE EXAMPLE:

AT10 pitch clamping plate for 25 mm width belt.

MEGALINEAR

FIXING PLATES QST



ALUMINIUM

CLAMPING PLATES FOR QST 5

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

ALUMINIUM

CLAMPING PLATES FOR QST 8

Pitch	BELT WIDTH	F	d	A	S	x	y	z	C
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

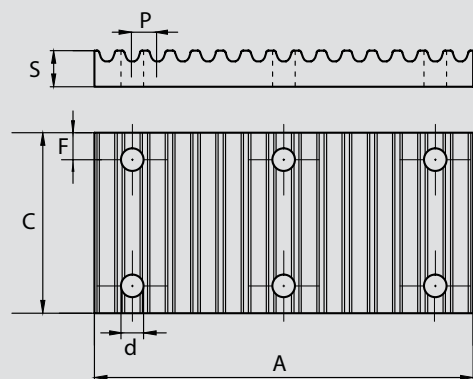
ALUMINIUM

CLAMPING PLATES FOR QST 14

Pitch	BELT'S WIDTH	F	d	A	S	x	y	z	C
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 | Dimensions in mm

FIXING PLATES GW



STEEL

CLAMPING PLATES FOR GW14

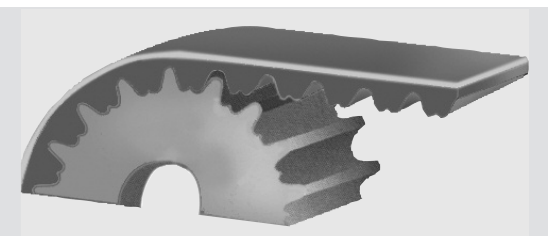
Pitch	BELT WIDTH	A	C	S	F	d	Screws UNI-EN 14399-8.8	N° of screws
GW14*	50	210	100	20	15	12,5	M12	2X3
	100	210	150	20	15	12,5	M12	2X3
	150	210	200	20	15	12,5	M12	2X5
	200	210	250	20	15	12,5	M12	2X6

STEEL

CLAMPING PLATES FOR GW20

Pitch	BELT WIDTH	A	C	S	F	d	Screws UNI-EN 14399-8.8	N° of screws
GW20*	50	340	110	36	15	16,5	M16	2X3
	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

*Available in customized length | Dimensions in mm



POSITIONING

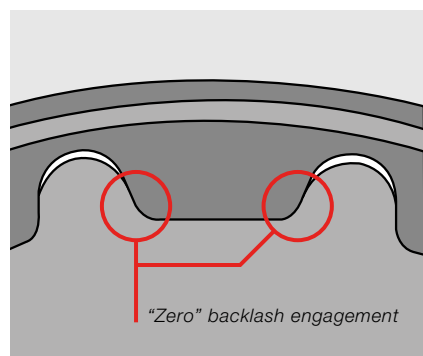
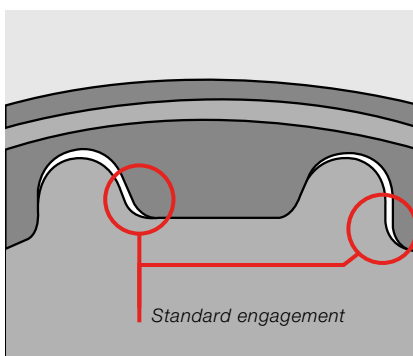
AND TRANSMISSION PRECISION

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

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

The maximum recommended pulley teeth are:

Till 100	1/min	Z=40
Till 500	1/min	Z=30
Till 1000	1/min	Z=20

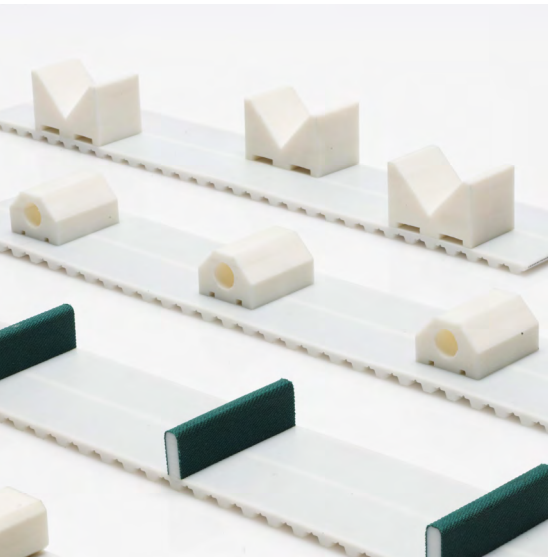


In following table there is a list of average values for backlashes:

AVAILABLE PITCH FOR "ZERO" BACKLASH PULLEY						
Average backlash value for standard	T5 XL	T10 L H	T20 XH	AT5	AT10	AT20
	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's timing belts can be customized 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, to check and develop all the needed special profiles.

STANDARD PARALLELEPIPED PROFILES

As standard cleats, Megadyne can produce 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 to 13 mm, the h value (height) can be from 3 to 120 mm and the width can be 150 mm maximum.

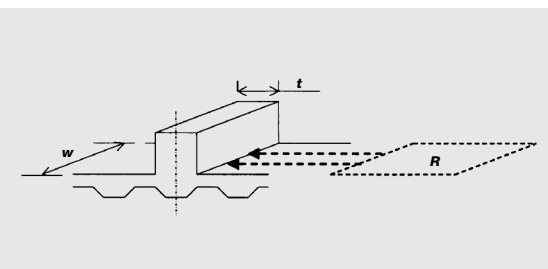
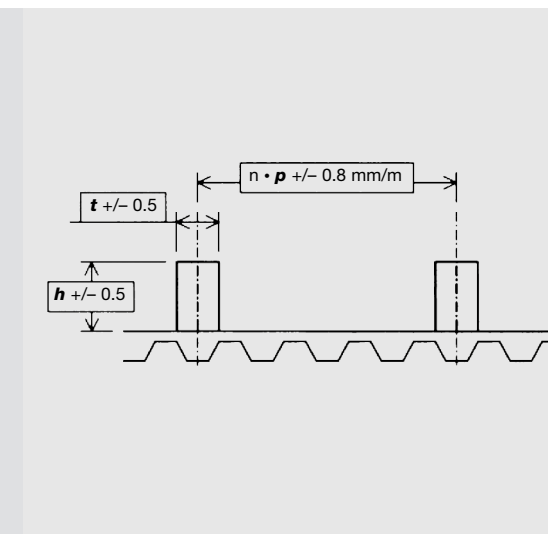
Megadyne recommends that the profiles spacing be multiple of the belt pitch; in any case, for special inquiries and small quantities, it is possible to weld the profiles also in other positions; the feasible dimensions, with the standard process tolerances, are introduced in the following sketch.

The tolerances on the position are ± 0.5 mm.

The cumulative tolerance on the spacing of the profiles is the same as 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 the profile and the belt.

In any case, Megadyne always removes this welding bead.



PROFILE MECHANICAL RESISTANCE

To find the right cleat dimensions, please consider the following factors:

CLEATS

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

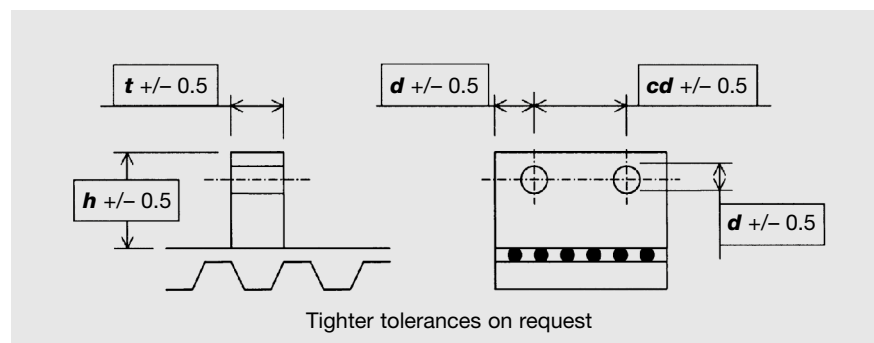
The profiles presence can change the belt flexibility properties; the two factors that affect the original flexibility are the following:

- 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 cleats are welded in the axis with the teeth, belt flexibility is better than when cleats are welded in the axis with the little nose.

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

CLEATS OVER A TOOTH						
CLEAT 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						
CLEAT 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

Parallelepiped profiles are available also with holes, to satisfy special applications; please find below, the standard tolerances for these kinds of cleats.

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

For belt flexibility, and mechanical resistance, please kindly refer to the values of the cleats without holes.

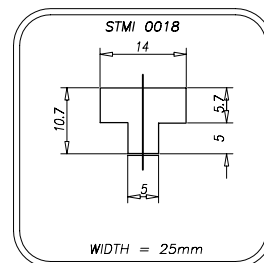
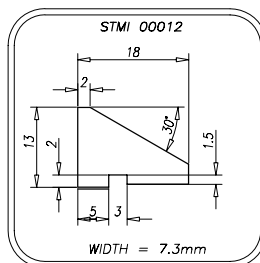
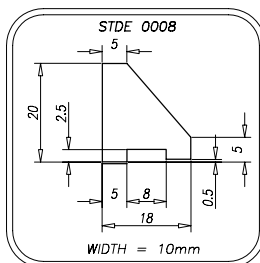
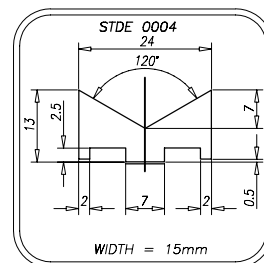
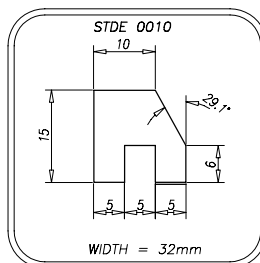
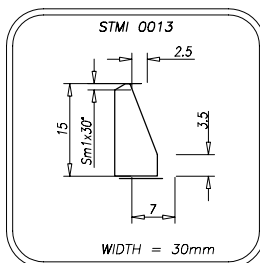
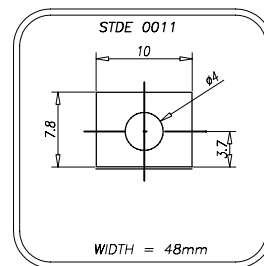
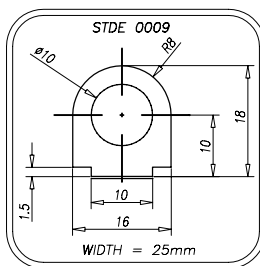
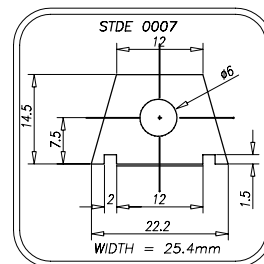
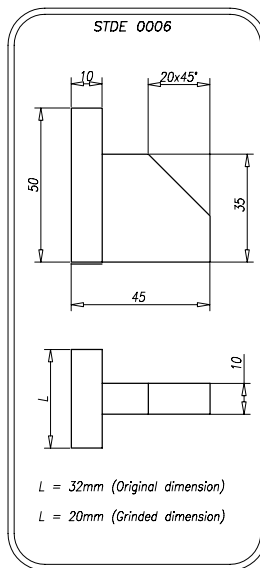
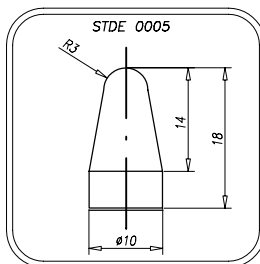
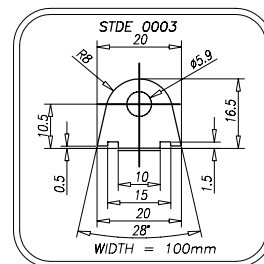
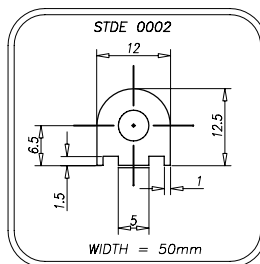
MOULDED CLEATS

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



CLEATS

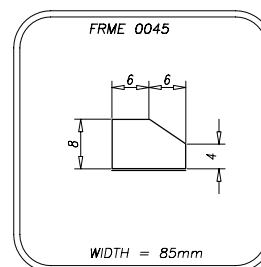
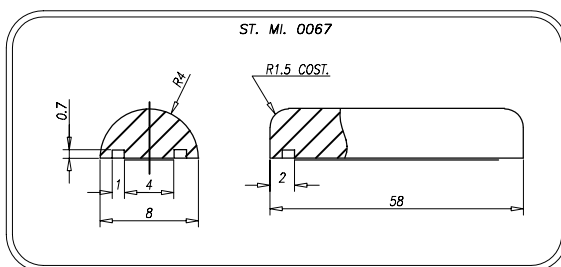
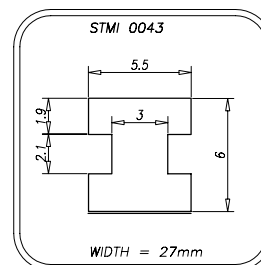
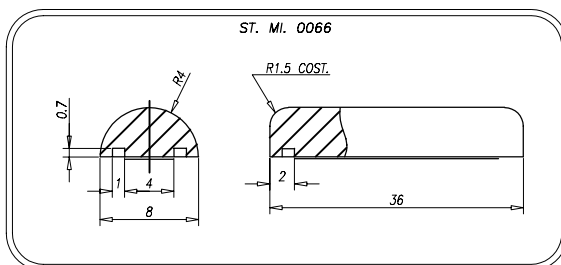
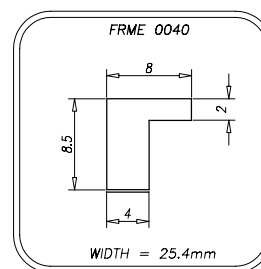
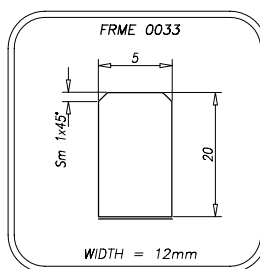
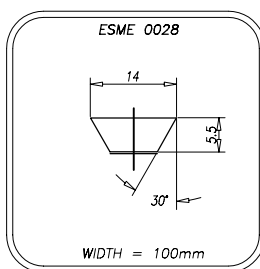
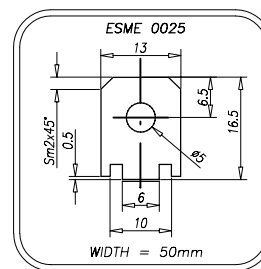
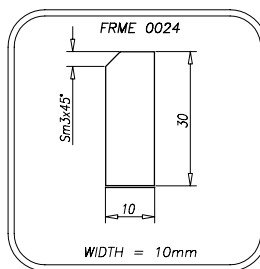
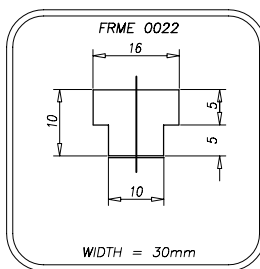
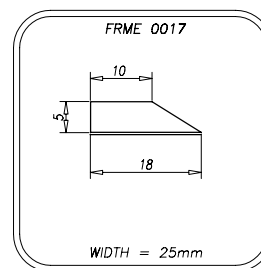
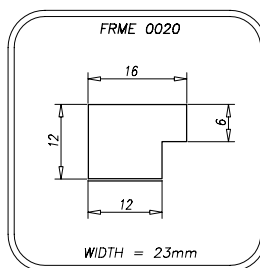
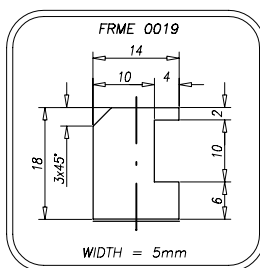
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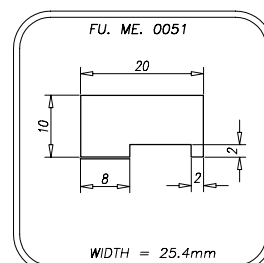
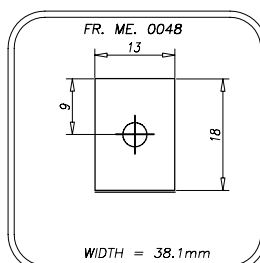
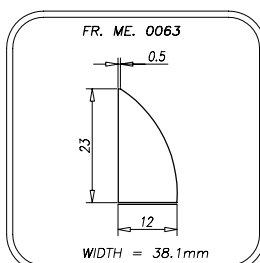
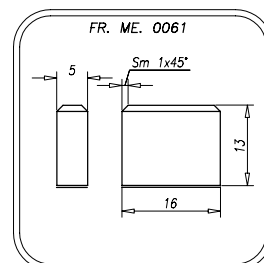
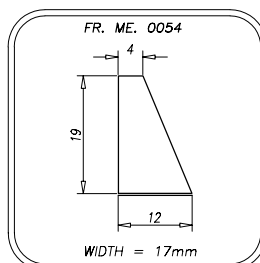
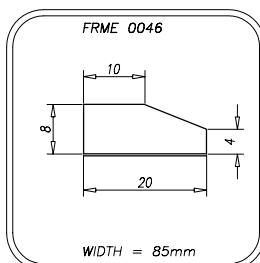
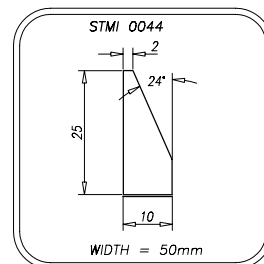
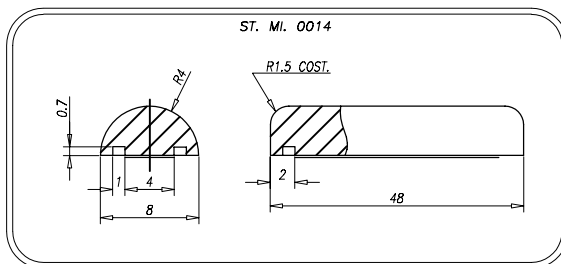
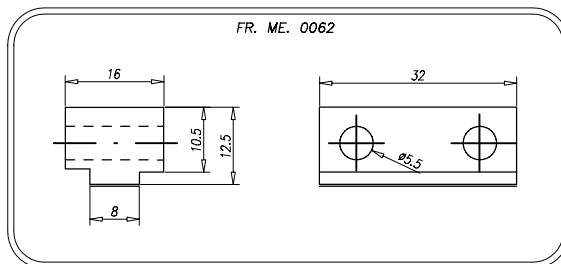
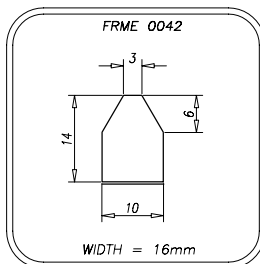
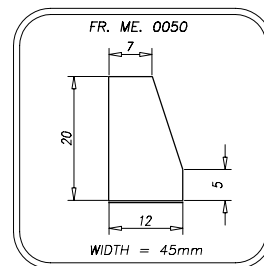
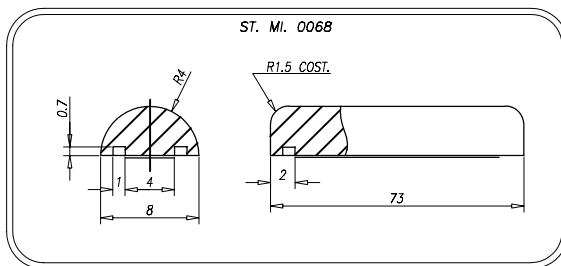
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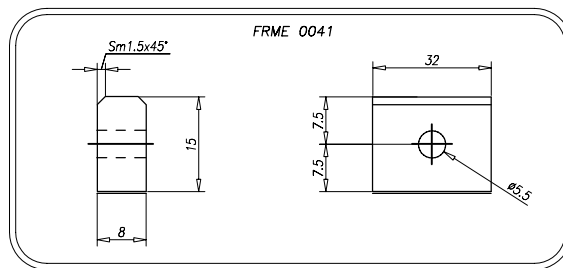
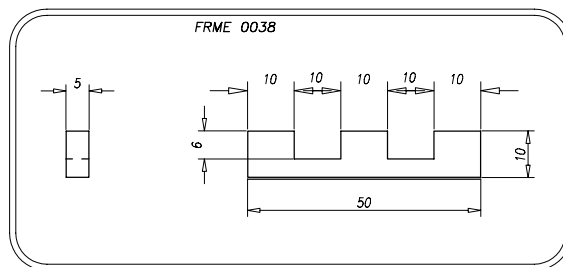
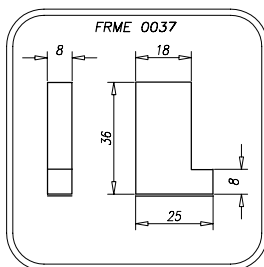
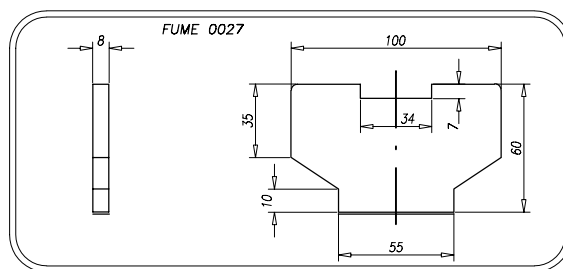
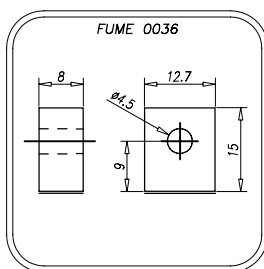
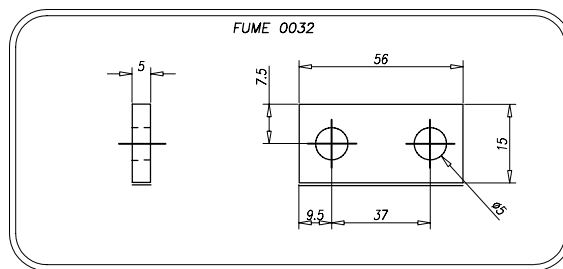
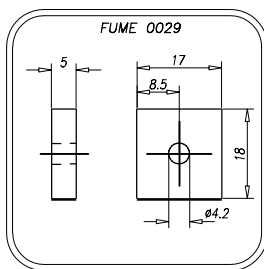
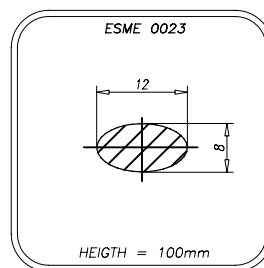
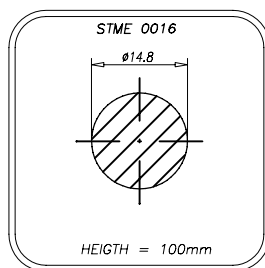
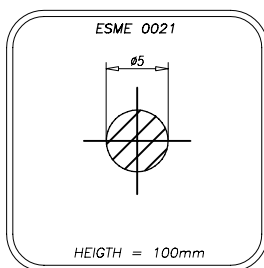
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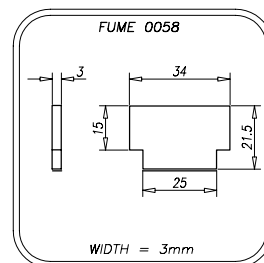
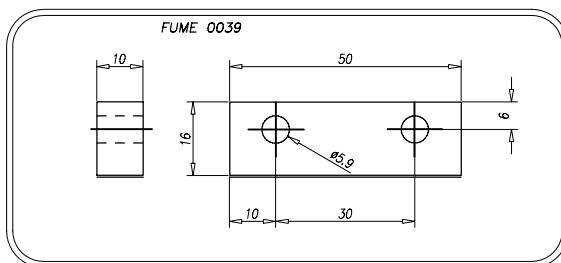
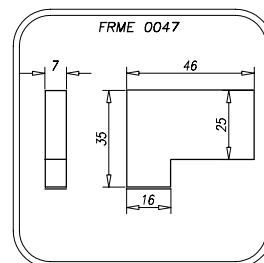
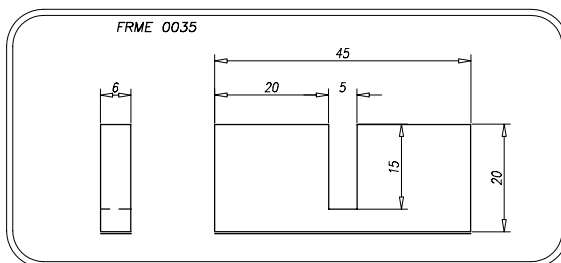
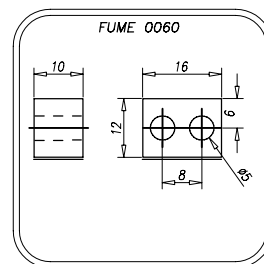
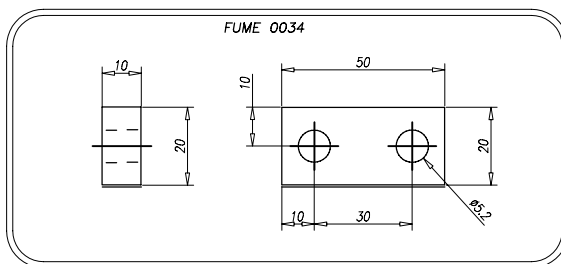
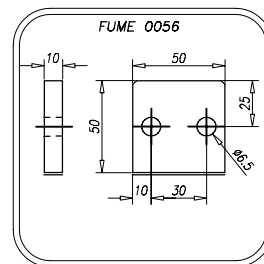
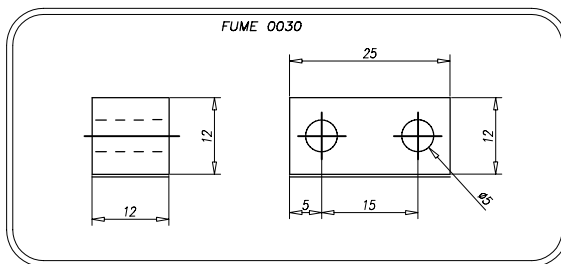
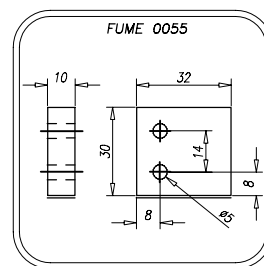
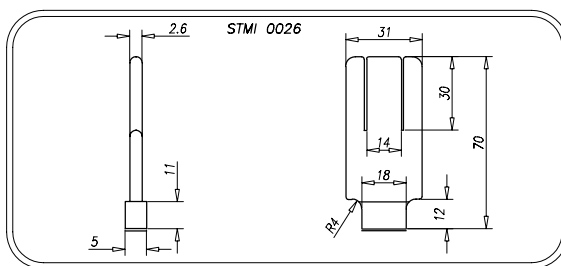
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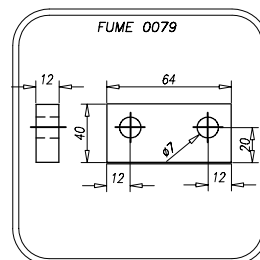
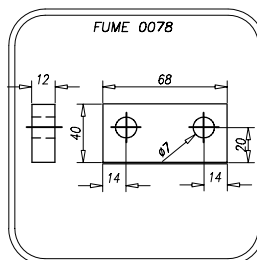
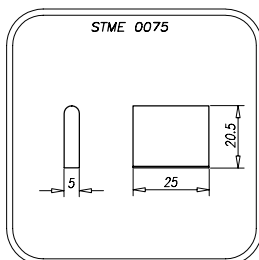
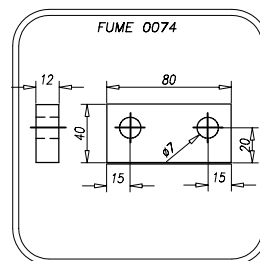
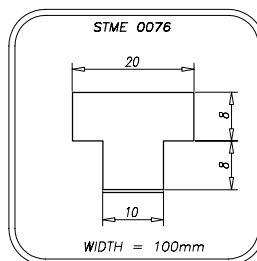
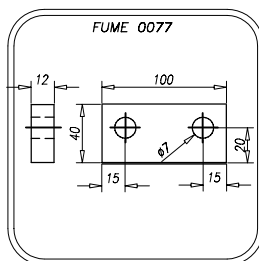
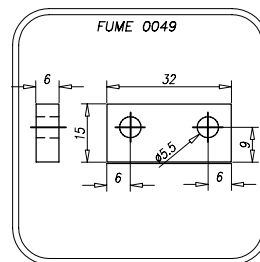
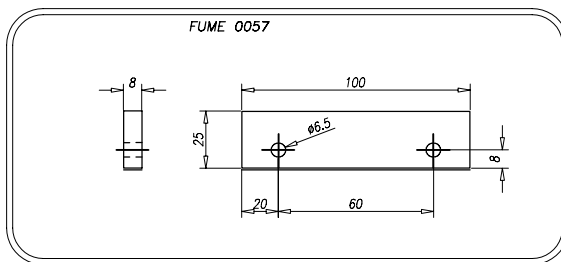
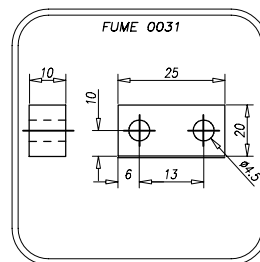
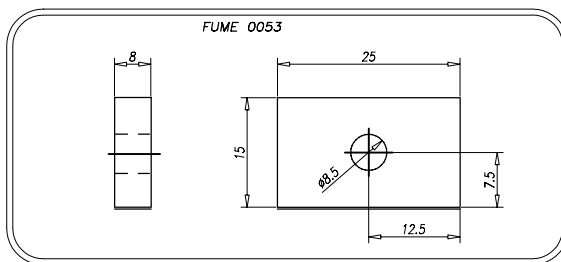
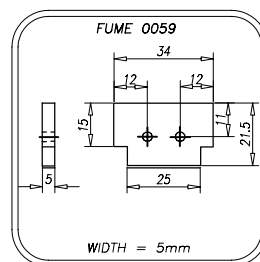
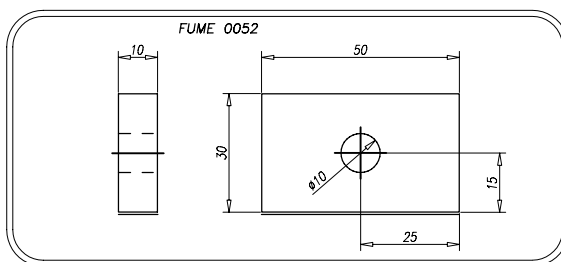
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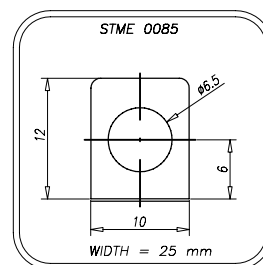
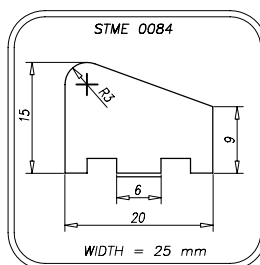
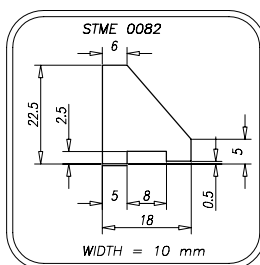
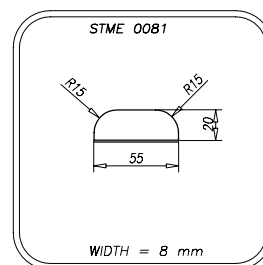
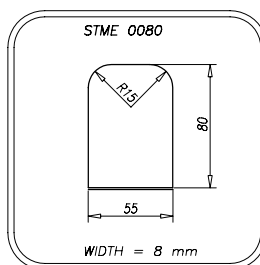
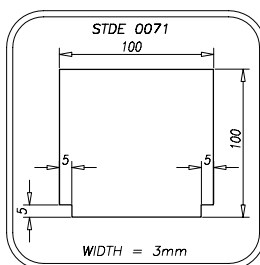
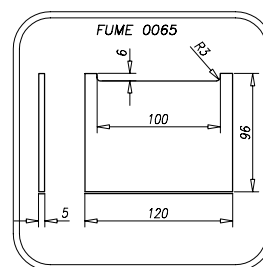
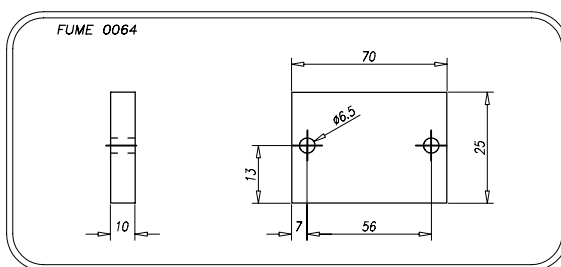
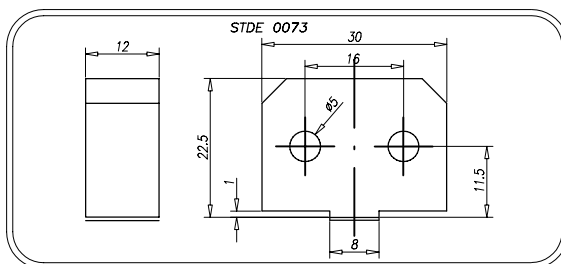
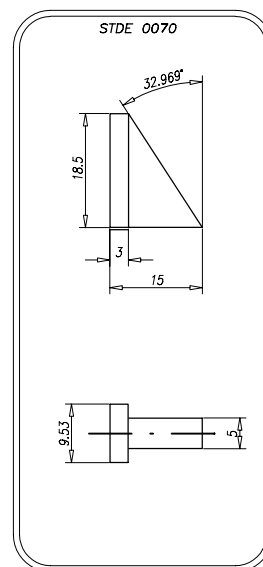
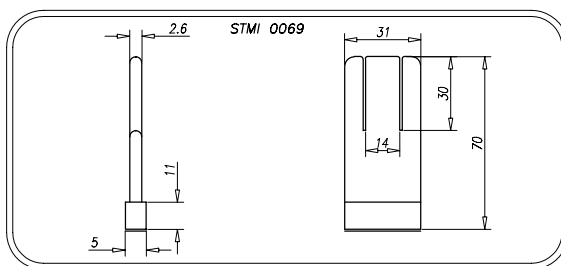
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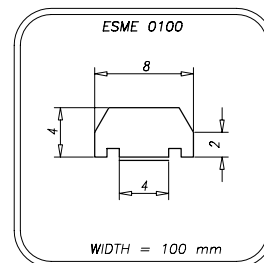
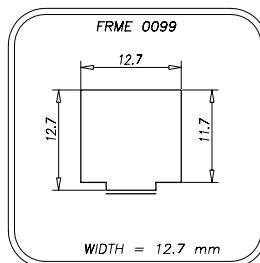
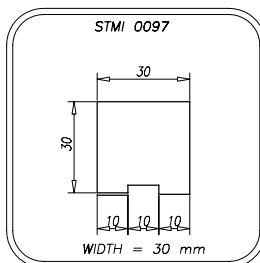
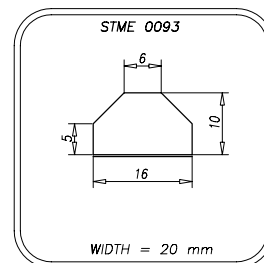
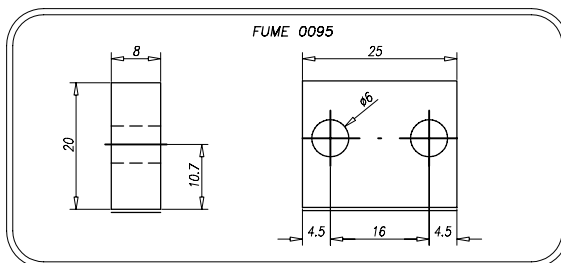
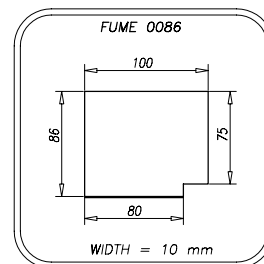
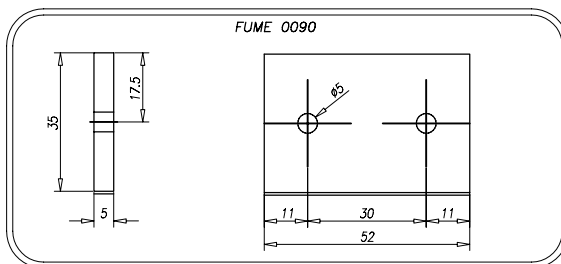
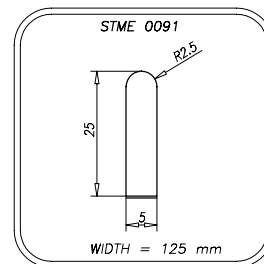
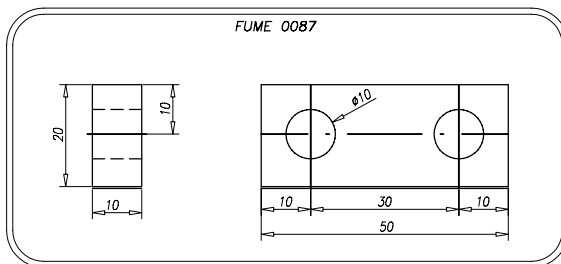
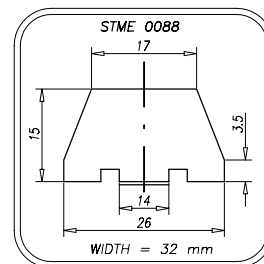
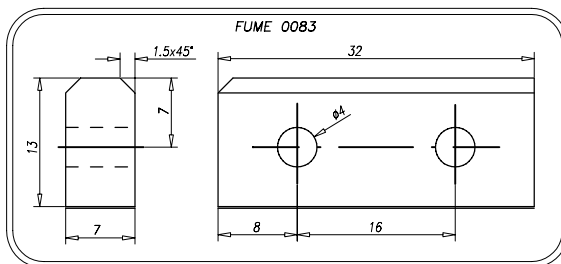
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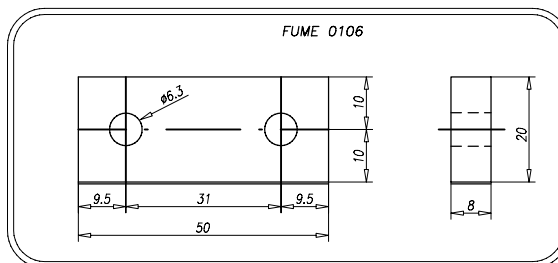
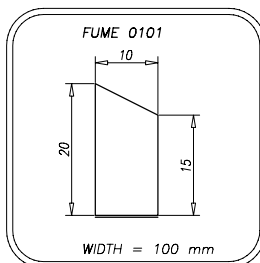
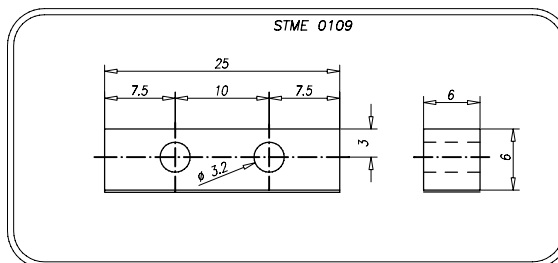
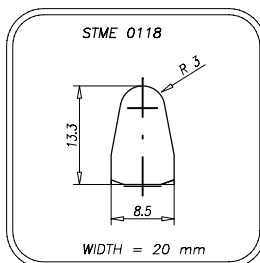
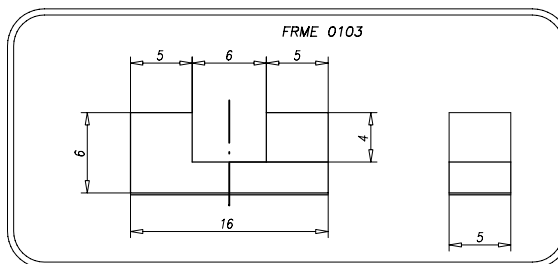
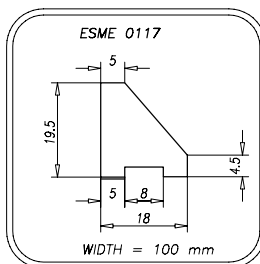
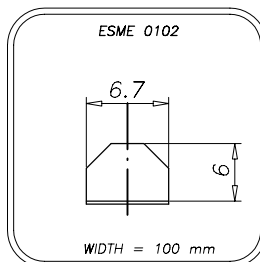
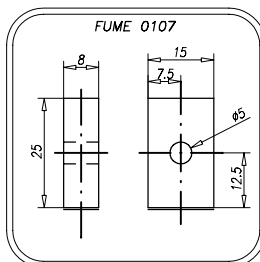
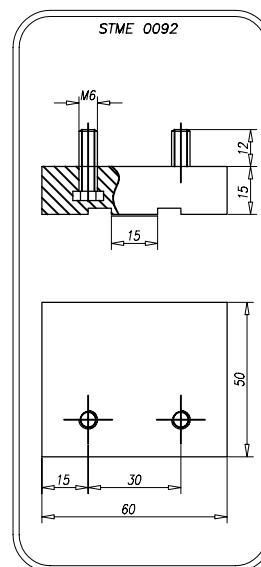
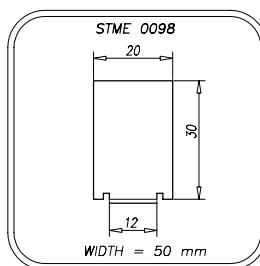
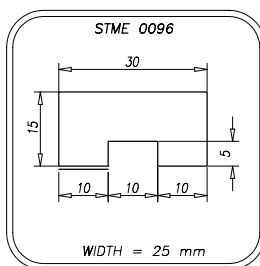
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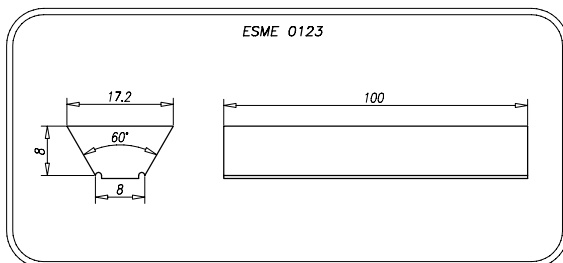
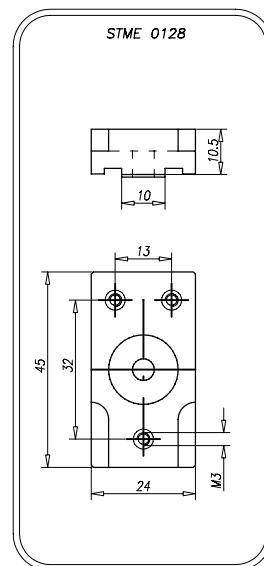
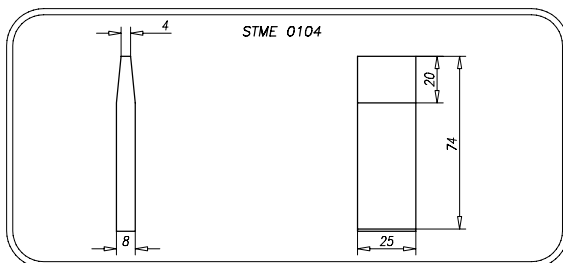
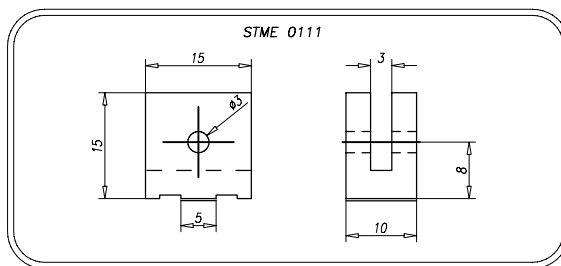
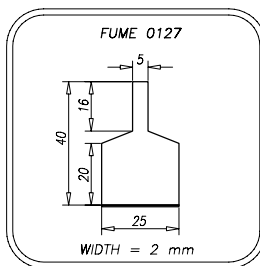
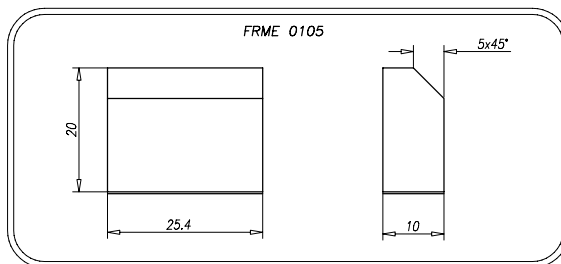
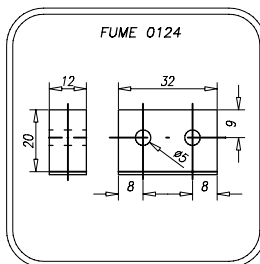
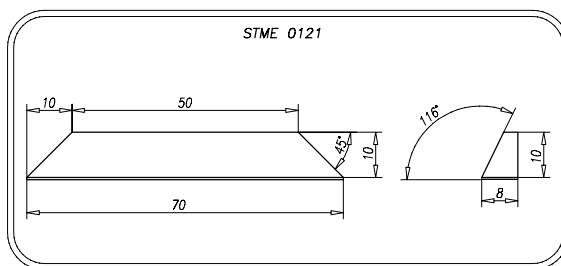
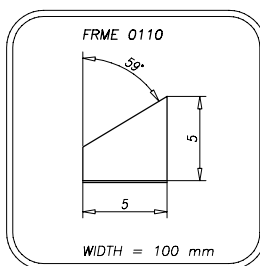
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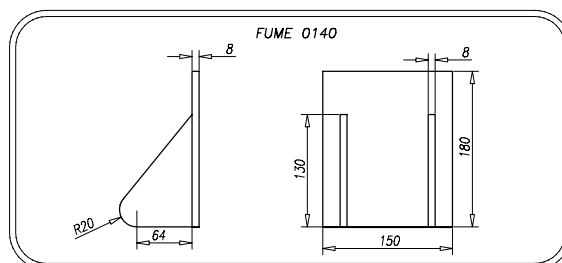
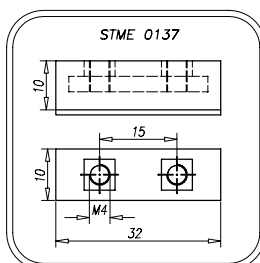
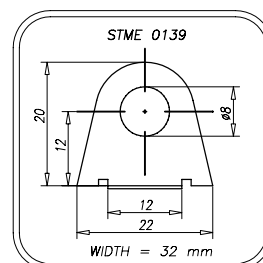
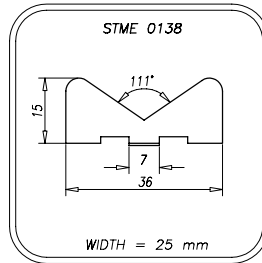
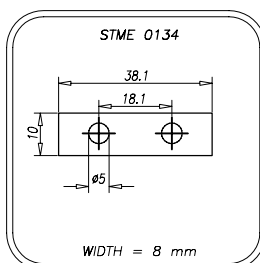
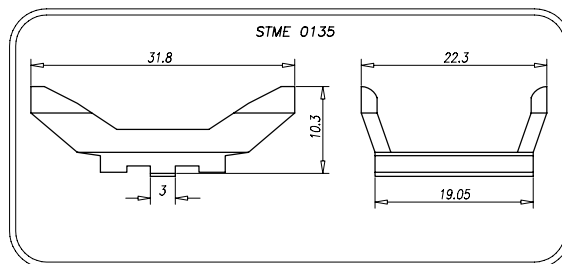
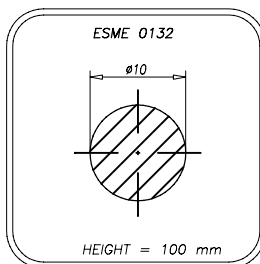
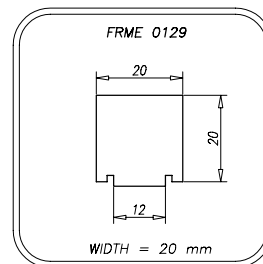
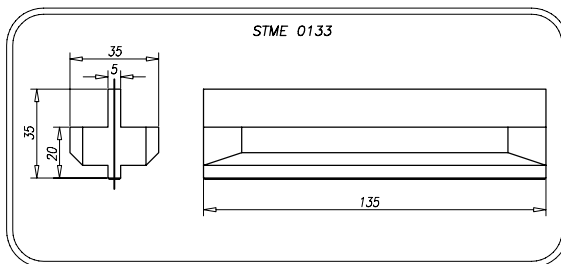
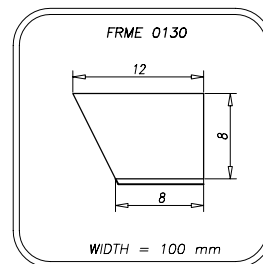
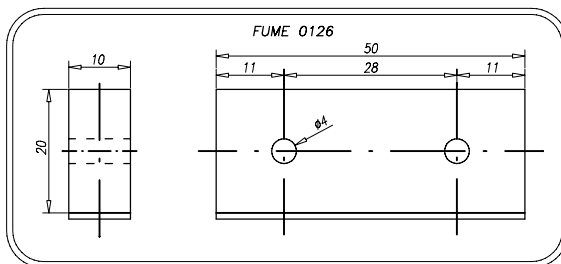
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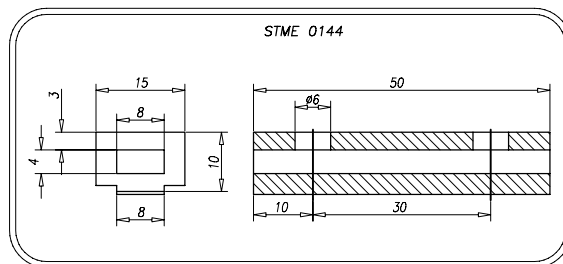
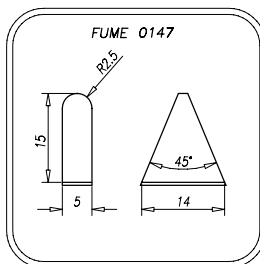
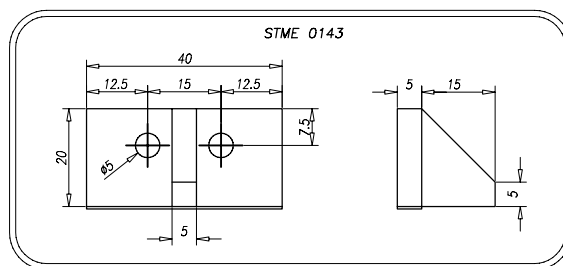
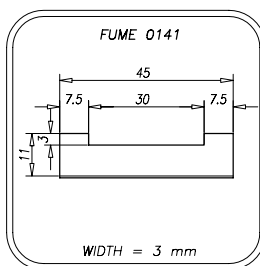
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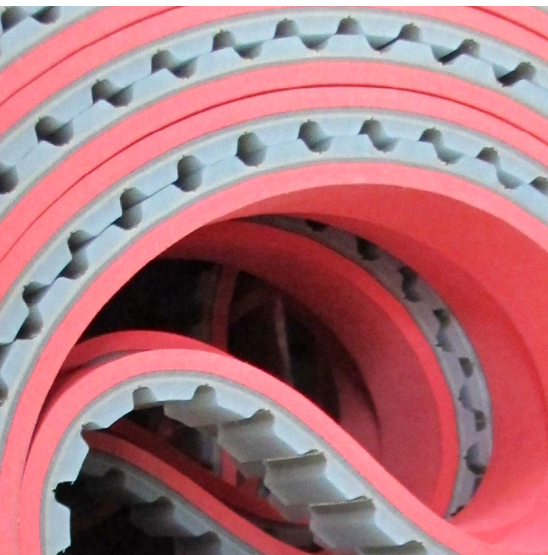




CLEATS

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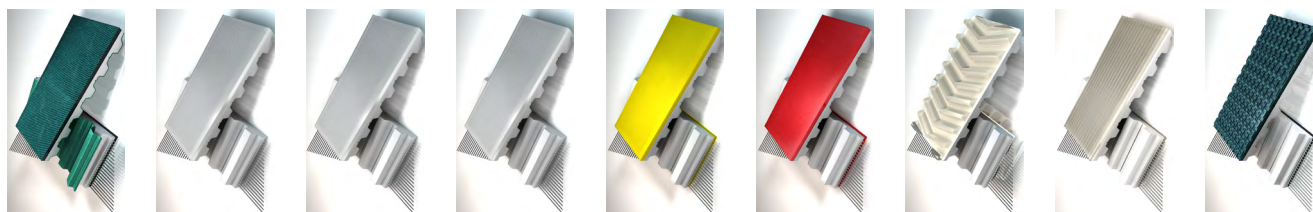
COVER PROPERTIES

MEGALINEAR belts can be coated with several materials. Those coatings are able to suit MEGALINEAR belts for all applications. The main advantages of using coated belts are the reduction of noise, and the modification of the friction in conveying materials. The choice of the correct coating depends on the application field. Megadyne is able to supply extruded coated belts. In this case, the coating method is the same as the belt's production one, and the cohesion between the belt and the cover is guaranteed by welding without using glue.

MEGALINEAR belts can be supplied also with vulcanised or glued covers.

Their technical properties are listed in the following tables. Contact Megadyne's team for custom solutions.

COVER TYPE									
	NFT/NFB NYLON FABRIC TEETH/ BACK	AVAFC 60	AVAFC 70	AVAFC 85	PU YELLOW, GREY, RED	APL	PU FISHBONE	PU RIBBED	SUPERGRIP PETROL
Raw material	nylon	polyurethane	polyurethane	polyurethane	foamed polyurethane	polyurethane/ PVC	polyurethane	polyurethane	PVC
Hardness (ShA)	–	60	70	85	35-40 50 60-70	55	70	70	46
Colour	green; black (antistatic)	transparent	transparent	transparent	yellow/grey/ red	red	transparent	transparent	petrol green
Coating and belt cohesion method	extrusion lamination	extrusion	extrusion	extrusion	spraying	extrusion	extrusion	extrusion	extrusion lamination
Thickness range (mm)	0,15 - 0,6	2/3/4	2/3/4	2/3/4	1 to 10	3,5	4,3	2,7	4,5
Tolerance on coating thickness	–	+ /- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,5	+/- 0,5	+/- 0,5
Working temperature range (°C)	-20 +80	-20 +80	-20 +80	-20 +80	-10 +60	-20 +60	-20 +80	-20 +80	- 10 +60
Friction coefficient ⁽¹⁾	0,25	0,65	0,65	0,60	0,40	0,70	0,60	0,60	0,90
Water resistance	good	good	very good	good	fair	good	very good	very good	good
Abrasion resistance	fair	good	good	very good	very good	good	good	good	fair
Oil resistance	fair	good	fair	good	good	good	fair	fair	good
FDA approved	no	no	no	no	no	no	no	no	no
Min. pulley dia = thickness • ... ⁽²⁾	std pulley	x 40	x 40	x 40	x 25	x 30	x 30	x 35	60 mm



(1) CoF - Determined by the static value against a steel guide; however, consideration must be given to the specific environmental conditions (contamination and/or wear resistance) and aging on the cover.

(2) Pd - The suggested diameter is a bigger value between this calculated value and the minimum pulley diameter on the belt data page.

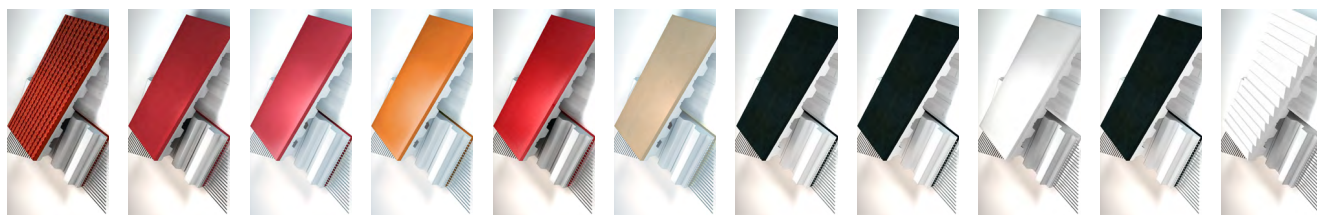
(*) with add. grinding +/- 0,3 mm possible.

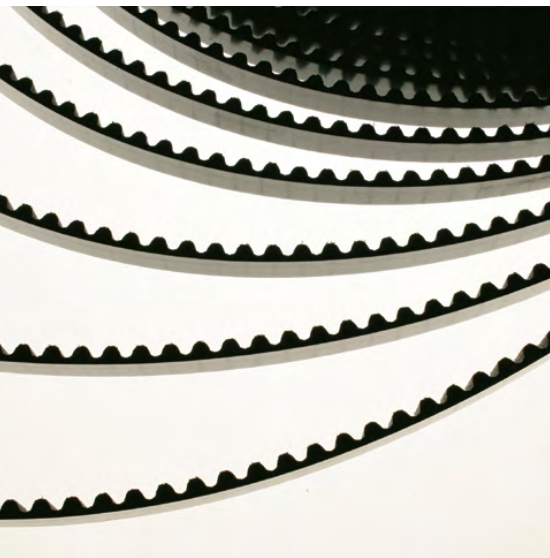
MEGALINEAR



COVER PROPERTIES

COVER TYPE										
HONEYCOMB	LINATEX™	RED NATURAL RUBBER 40	DURATAQ®	TENAX STANDARD	GUMMY CORREX AMBRA PARABLOND	BLACK NEOPRENE	NBR	LINAPLUS FG	POROL BLACK	PVC SAW TOOTH
natural rubber	natural rubber	natural rubber	natural r rubber	natural rubber	natural rubber	neoprene	nitrile caoutchouc	natural rubber	natural cellular rubber foam	PVC
50	38 40	40	45	45	48	50 70 (VUC)	50 65-70 (VUC)	38	290 kg/m³	60 +/- 4
red	red	red	orange	red	beige	black	black/white	white	black	white
lamination	lamination; vulcanization	vulcanization	vulcanization	vulcanization	vulcanization	vulcanization; lamination	lamination; vulcanization	lamination	lamination	lamination
4,5 to 15	1 to 10 3 to 12,7 (VUC)	2,4 to 14	2,4 to 14	0,8 to 15	0,8 to 15	3 to 12; 0,8 to 15	2 to 6; 0,8 to 15	1 to 3	2 to 20	2,5
+/- 0,5	+/- 1 (*)	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,5 +/- 0,3	+/- 1 (*)	+/- 0,5	+/- 0,5
-20 +60	-40 +70	-20 +80	-20 +100	-20 +60	-20 +60	-20 +60; -10 +100	-35 +70; 0 +120	-40 +70	-40 +70	-15 +70
0,60	0,90	0,50	1,10	0,70	0,60	0,60	0,70 0,60	0,75	1,20	0,70
very good	good	good	good	very good	very good	good	very good ; good	good	very good	good
very good	good	fair	very good	very good	very good	good	poor; good	fair	fair	fair
poor	poor	poor	poor	poor	poor	good	good	poor	fair	very good
no	no	no	no	no	no	no	no	yes	no	yes
x 30	x 20	x 20	x 20	x 30	x 30	x 30	x 30 x 35	x 25	x 15	60 mm





SPECIAL EXECUTION

FEASIBILITY

Megadyne can make special extrusions on customer requests to improve belt properties and to suit better to special applications.

SPECIAL POLYURETHANE

On customer request, and with minimum quantity, MEGALINEAR belts 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 in several colours.

A different colour doesn't influence the belt's technical properties, so the mechanical's features are the same as the standard white belt ones.

The available colours are: • White • Black • Blue • Yellow • Transparent

SPECIAL EXTRUSION

On customer request, Megadyne's R&D department can develop special extruded belts by designing special mould.

It is also possible to extrude standard belts with special cords position, ready for successive reworkings.

MECHANICAL REWORK

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

BACK GRINDING

The belt's back can be grinded to achieve a precise belt thickness as an adjunct to precision drives. When a belt back grinding to 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). Several 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 the required function. The measurement is given by the depth of the belt's back. Several widths and lengths are available.

REWORK ON BELT TEETH

The rework of the tooth's profile can be particularly useful, i.e. to improve the steering effect with guide rails. The rework dimension is given by the top of the tooth. Several belt widths and lengths are available.



SPECIAL EXECUTION

HOLES IN TIMING BELTS

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

SINGLE TOOTH REMOVAL

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

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, 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 inserts only
- NFT\NFB fabric, and cover options NOT available
- Available Range: T5-T10-T20-AT5-AT10-AT20-H-STD8-ATG10

MEGALINEAR XMD

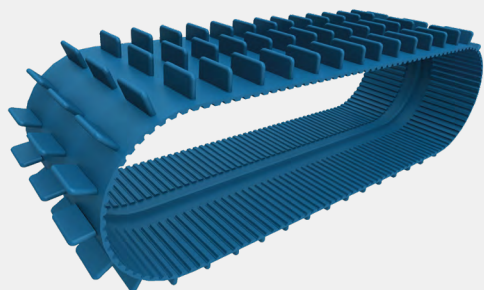
Available in all standard profiles, and lengths already in use for MEGALINEAR FC, MEGALINEAR FCM.

CHARACTERISTICS:

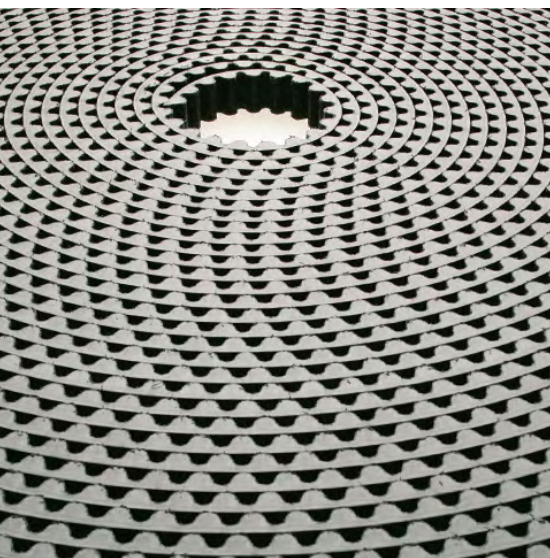
- Special detectable dark blue polyurethane compound
- Standard cords: S and Z torsion Kevlar® for MEGALINEAR FC; Stainless steel for MEGAFLEX FCM and MEGALINEAR FCM
- Standard splice method by finger splice
- Customizable with cleats, made of the same detectable thermoplastic compound and applied by welding.

FEATURES:

- Metal and X-ray-detectable thermoplastic compound for belts and cleats
- Easy switch 1:1 with existing timing belts
- Food-Grade belts comply with EC 1935/2004, EU 10/2011, and FDA standards that support ISO 22000 (previously HACCP) requirements
- Working temperature -25°C/+70°C.



XMD METAL DETECTABLE
& X-RAY



SPECIAL EXECUTION

ANTISTATIC POLYURETHANE TIMING BELTS

Megadyne 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” surfaces or “antistatic” surfaces. The test methods for determining the surface’s 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 to the test method of norm ISO 9563, should not exceed:

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

WHERE:

L = is the dry distance between the 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’s antistatic belts are produced with black polyurethane, as standard.

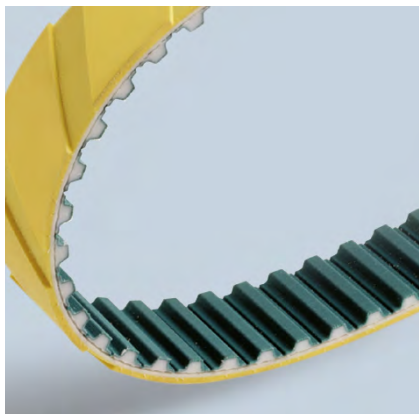
TYPICAL APPLICATIONS

- 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 conveying
- Clean room conveyors and power transmissions



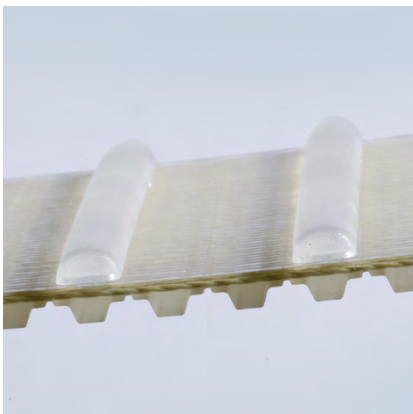
SPECIAL EXECUTION

PHOTOS



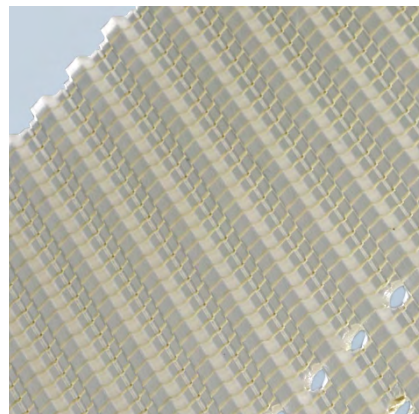
GLASS INDUSTRY

The coating and the special grinding on the back, allow Megadyne's belt to be suitable for all customer applications



TOBACCO INDUSTRY

Belt with special cleats for the tobacco industry



NAPPY INDUSTRY

Wide extruded belt for the nappy industry



PACKAGING INDUSTRY

Special reworking to install custom made elements



AUTOMOTIVE INDUSTRY

Belt suitable to convey steel coils and plates thanks to the guides on the back



PAPER INDUSTRY

Special extruded belt for vacuum conveyor application in the paper industry



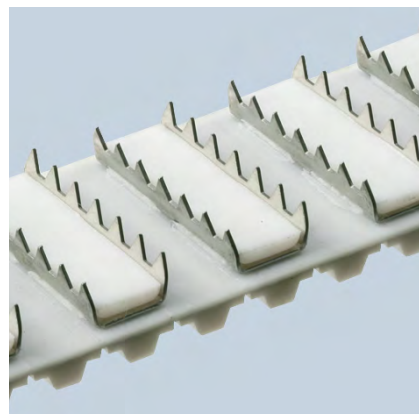
CARTON INDUSTRY

New extruded belt for vacuum application in the carton conveyor industry



CONVEYOR APPLICATION

Special coating for conveyor applications



FISH INDUSTRY

High variety of cleats allow MEGALINEAR belts to work in several fields

MEGALINEAR

DATA SHEET

Does the application require special friction characteristics? If yes, please specify value/unit and contact material.

Does the application require special colour other than std? If yes, please specify (RAL reference) and variability acceptance.

Does the application need special radiation requirements? If yes, please specify type of radiation (X-ray, microwave, UV, etc), energy involved and exposure time. _____

Does the application require special packaging and labelling? _____

Does the application require special reworkings? Specify which and the dimensions and quality requirements for each one:

Holes ☐ Cleats ☐ Grinding ☐ Teeth milling ☐

Others _____

What are the critical aspects of the belt for the application, if any? _____

Are there any visual requirements (colors, impurities, inclusion, surface finish etc.)? _____

Are there special requirements for the joining area if present (eg: width)? _____

DATA SHEET

ENVIRONMENTAL CONDITIONS

Indoor or outdoor application? If outdoor please specify if under direct sunlight or not _____

Is it a water submerged application (type of water: tap water or sea water or other)? _____

Min-Max Temperature working range [°C] _____

the average service temperature and peak temperature with peak duration time _____

Min-Max Humidity working range [gr/m²] _____

the average service humidity and peak humidity with peak duration time _____

Is the belt in contact with chemicals (lubricants, grease, acids, cleaning agents etc.)? If yes please specify contact time, contact temperature, chemical concentration and provide chemical TSD and MSDS _____

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

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

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

We also recommend reading carefully the following documents on our website www.megadynegroup.com:

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

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Ammega Italia S.p.A.
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for sustainable power transmission belting solutions
around the globe.



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and find your local
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