



MEGADYNE



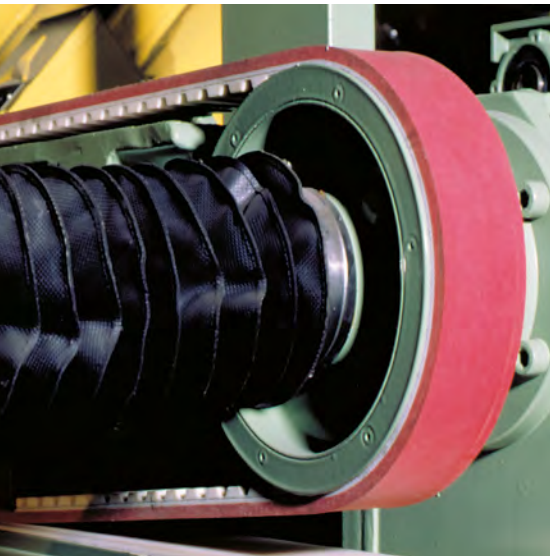
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MEGAFLEX

TECHNICAL
HANDBOOK

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INTRODUCTION

TO TRULY ENDLESS BELT

Megadyne commenced manufacturing transmission belts in 1957 and extruding polyurethane endless belts in 1990. MEGAFLEX belts are manufactured in thermoplastic polyurethane, that gives superior wear and abrasion resistance. Various grade of steel cords offer good running characteristics even with high tractive load. Great production flexibility grant to designers possibility to match any technical requirement and solution. By selecting different components and material, MEGAFLEX belts can be manufactured to meet every customer requirement.

Megadyne has expanded the megaflex range to include:

MEGAFLEX FCM, MEGAFLEX XMD

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

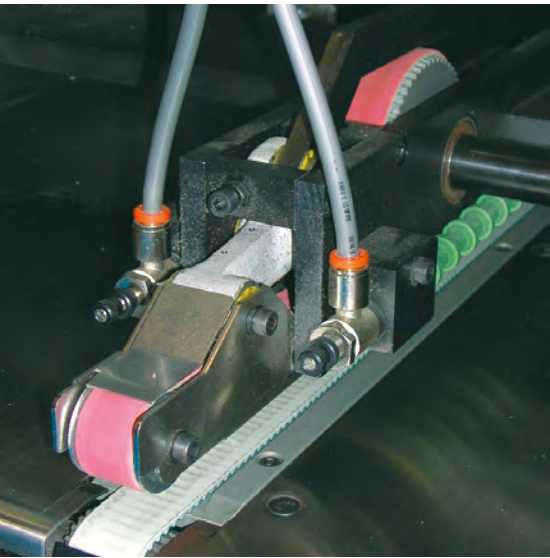
MEGAFLEX FCM can be made with a special Metal and X-ray detectable compound. MEGAFLEX XMD decreases the risk of contamination from belt fragments protecting consumer safety.

MEGAFLEX MEGAECO BIOBASED

MEGAFLEX MegaEco Biobased is a part of the Megadyne MegaEco range, the sustainable belt solution for power transmission system. Made with polymer coming partially from vegetable sources, this "eco-friendly" belt can support companies to reduce CO₂ footprint.



PRODUCT RANGE

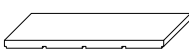
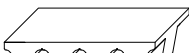
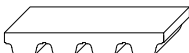
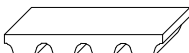
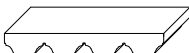
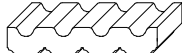
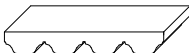
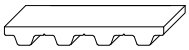
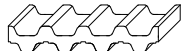
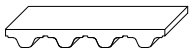


Thanks to their features, MEGAFLEX belts can be successfully used in a wide range of application such as:

- High Power Transmissions
- Ceramic industry
- Marble & Stone industry
- Glass Industry
- Painting Mixer machines
- Heavy Transport systems
- Wood industry
- Food industry

STANDARD

DOUBLE SIDED



STANDARD RANGE

XL • L • H • XH

T5 • T10 • T20

AT5 • AT10 • AT20

AT15

RPP5 • RPP8 • RPP14

MTD8

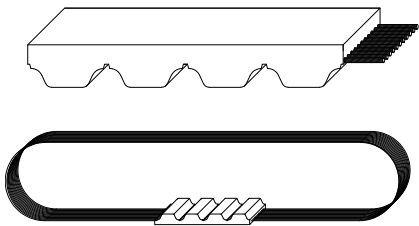
ATG10

P2

CLASSIFICATIONS

CLASSIFICATIONS

MEGAFLEX timing belts are manufactured in thermoplastic polyurethane, with single helicoidal steel cords. This type of belts, developed by our Research & Development, offers good running characteristics and high traction loads. They are especially suited for power transmissions and conveying with high loads and speeds. The addition of a nylon coating on the teeth during production enhances the running properties for specific applications and reduces the noise due to a lower frictional coefficient. On the back of the belt an extra thickness of special coating is also possible, 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; special compound on request (see page 49).
- 2.** High strength helicoidal zinked steel tension members allow high breaking load and extremely low elongation. The combination of these high grade materials improves belt performances which can be summarised as follows:

- exceptional resistance to abrasion and tooth shear
- low coefficient of friction
- high flexibility
- ozone and temperature resistance (-25 °C / +80 °C)
- oil, grease and gasoline resistance.

MECHANICAL AND CHEMICAL CHARACTERISTICS

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



CLASSIFICATIONS

MECHANICAL AND CHEMICAL CHARACTERISTICS

BODY

MEGAFLEX belts are manufactured with white thermoplastic Polyurethane 92 ShA as standard.

Special compounds (different hardnesses, special properties) are available on request. Special compound and cords have to be tested and homologated on the application. Megadyne is not responsible for wrong functioning of special product. 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 (like tetrahydrofuran, dimethylformamide, n-methylpyrrolidone) can dissolve or tight damage PU. The Esters or the Ketons (same as ethyl acetate or methylethylketene) can usually produce a bulge, decreasing mechanical characteristics. Aromatic Hydrocarbons and aliphatic Hydrocarbons produce very high bulge. All the effects increase by increasing temperature.

OILS

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

GREASES

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

FUELS

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

MICROORGANISMS

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

WEATHER AGENTS

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



CLASSIFICATIONS

MECHANICAL AND CHEMICAL CHARACTERISTICS

CORDS

STANDARD CORD

MEGAFLEX is manufactured with helicoidal zinked steel cords as standard.

KEVLAR®

Kevlar® tension cords are suggested in:

- Non magnetic, for use in drives with metal detectors
- Food industry
- Applications in damp environment 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 pulley and idler diameters than standard cords. They are suitable for multi-shaft drives with severe reverse bending.

HPF

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

STAINLESS STEEL

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



CLASSIFICATIONS

COATING

MEGAFLEX can be manufactured with special coating on the teeth or on the back. Please check on pages 50 and 51. Other covers on request.

IDENTIFICATION CODE

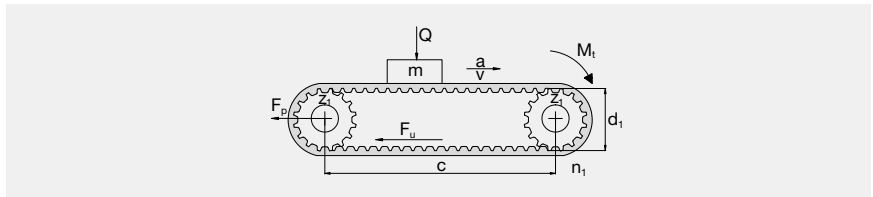
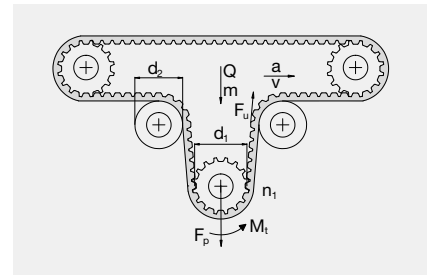
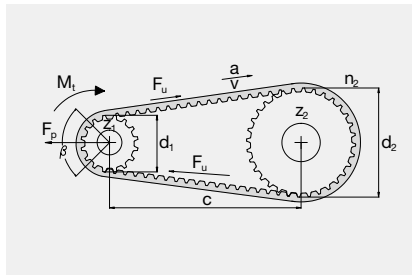
Using the information in the table below, it is possible to identify the correct belt for every application. The code is composed of letters and numbers as the following example:

| | | | | | | | | | | |
|----------|---|----------|---|----------|---|----------|---|----------|---|-------------------------|
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 |
| MFX | + | 50 | + | AT | + | 10 | + | 10000 | + | SPECIAL MANUFACTURES |

| | | |
|----------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | MFX | MEGAFLEX. |
| 2 | 50 | This number indicates the requested belt width. The value is in mm for a belt with pitch in mm, and in inches for a belt with pitch in inches. |
| 3 | AT | This code composed by letters indicates 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 as Kevlar® or HP or HF or HPF or stainless steel Special compound as different hardness (85 ShA) or different colours (black - red - yellow - blue) Extra coating (NFT or AVAFC or Tenax or Linatex or Honeycomb or PU black cellulose or PU yellow or Neoprene rubber). Please see page 50 and 51 |



TECHNICAL CALCULATION



| SYMBOL | UNIT | DEFINITION | SYMBOL | UNIT | DEFINITION |
|----------------------|------------------|------------------------------------------------|---------------------------|-------|-----------------------------------------|
| b | mm | belt width | F_p | N | pretension |
| L | mm | belt length | F_u | N | peripheral force |
| c | mm | centre distance | F_{p spec} | N/cm | transmittable force per tooth per unit |
| d_i | mm | pitch diameter of pulley i | M_t | Nm | drive torque |
| m | kg | total conveyed mass | n_i | 1/min | revs/min (RPM) on pulley i |
| a | m/s ² | acceleration | P | kW | drive power |
| v | m/s | belt speed | Q | N | force exerted by mass (m) |
| C_s | - | safety factor | z_i | | number of teeth on pulley i |
| g | m/s ² | gravity (9.81) | z_m | | number of teeth in mesh on drive pulley |
| μ | - | coefficient of friction between belt and guide | z_s | | number of teeth on small pulley |
| p | - | belt pitch | z_L | | number of teeth on largest pulley |
| MTL | N | Max Traction Load | BS | N | Breaking Strength |

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

CHOICE OF BELT PITCH, LENGTH AND PULLEY

For optimal belt pitch see tables on page 10.

For optimal choice of pulley size, it is desirable to have as nearest to 12 teeth in mesh as possible.

Belt length will be approximately:

$$L = 2c + 1,57 (d_1 + d_2) + \frac{(d_2 - d_1)^2}{4c}$$

Please always check available lengths in belt data pages, considering you must have an integer number of teeth.
The actual center distance will be:

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



TECHNICAL CALCULATION

CALCULATION OF THE PERIPHERAL FORCE ON THE TIMING BELT

| | | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Knowing mass | For horizontal & conveying drives <i>(Note: values of μ can be found in table 3 on page 12)</i> | $F_u = (m \cdot a) + (m \cdot g \cdot \mu)$ |
| | For vertical drives | $F_u = (m \cdot a) + (m \cdot g)$ |
| Knowing drive torque | - | $F_u = 2000 M_t / d_1$ |
| Knowing drive power | - | $F_u = 19,1 \cdot 10^6 \cdot P / (d_1 \cdot n_1)$ |

DETERMINATION OF THE BELT WIDTH

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 13 table number 4 |
| | F_u | from above calculation |
| | Z_m | number of teeth in mesh on driver pulley <i>(nearest lower integer number)</i> |
| | Z_m | $[0,5 - \frac{4 \cdot p}{79 \cdot c} (Z_L - Z_s)] \cdot Z_s$ <i>(if calculated $Z_m > 12$ for an open-end application use $Z_m = 12$)</i> |
| | $F_{p \text{ spec}}$ | transmittable force per tooth per unit width <i>(see table on belt data pages)</i> |

PRE-TENSIONING

The suggested installation tension, see page 12.

CORD CHECK

ESPECIALLY FOR POWER TRANSMISSION, CHECK CAREFULLY ACCORDING PROCEDURE

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 diameters are equal to or greater than the minimum value specified in corresponding belt data page.



CALCULATION EXAMPLE

CHOICE OF BELT PITCH, LENGTH AND PULLEY

According to belt pitch selection table n.1 on page 11, considering the value of P and RPM, we select RPP5.

Then we consider the nearest pulley diameter to the requested value and the corresponding n. of the teeth (see technical information on page 29). Therefore $z_1 = 30$ teeth ($d_1 = 47,75$ mm) and $z_2 = z_1 \cdot 2 = 60$ ($d_2 = 95,49$ mm). Belt length is $L = 2c + 1,57 (d_1 + d_2) + [(d_2 - d_1)^2 / 4c] = 2 \cdot 900 + 1,57 \cdot (47,75 + 95,49) + (95,49 - 47,75)^2 / (4 \cdot 900) = 2025,5$ mm.

Because of this, the actual center distance will be:

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

$$c = \frac{1}{4} \left[2025 - \frac{5}{2} (30 + 60) + \sqrt{\left[2025 - \frac{5}{2} (30 + 60) \right]^2 - 2 \left[\frac{5}{\pi} (60 - 30) \right]^2} \right] = 899,68 \text{ mm}$$

CALCULATION OF THE PERIPHERAL FORCE ON THE TIMING BELT

$$F_u = 19,1 \cdot 10^6 \cdot \frac{P}{(d_1 \cdot n_1)}$$

$$F_u = 19,1 \cdot 10^6 \cdot \frac{2}{(47,75 \cdot 1500)} = 534 \text{ N}$$

DETERMINATION OF BELT WIDTH

| | | |
|--------------------------------------------------------------------|----------------------|------------------------------------|
| $b = \frac{F_u \cdot C_s \cdot 10}{F_{p \text{ spec}} \cdot Z_m}$ | F_u | from before (534N) |
| | C_s | from page 13 table 4, $C_s = 1,5$ |
| $b = \frac{534 \cdot 1,5 \cdot 10}{24 \cdot 12} = 27,8 \text{ mm}$ | Z_m | 14,6 > 12 so $Z_m = 12$ |
| | n_1 | 300 RPM (given) |
| | $F_{p \text{ spec}}$ | 24N/cm (refer page 29 at 1500 RPM) |

Since the next closest width is 30mm: 30RPP5 is chosen.

PRE-TENSIONING

$$F_p = F_u$$

$$F_p = 534 \text{ N}$$

CORD CHECK

ESPECIALLY FOR POWER TRANSMISSION, CHECK CAREFULLY ACCORDING PROCEDURE

From page 29 max traction load is 2100N

$$\text{max traction load} > \frac{F_p}{2} + (F_u \cdot C_2)$$

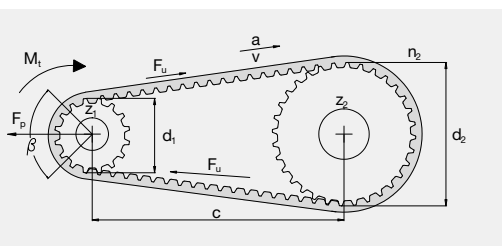
$$\frac{709}{2} + (534 \cdot 1,5) = 1155 \text{ N}$$

2100N > 1155N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Checking data on page 29 for pulleys and idlers, it can be seen that the drive has acceptable pulley diameter.

Selected belt is **30 RPP5 2025**.



MACHINE DATA

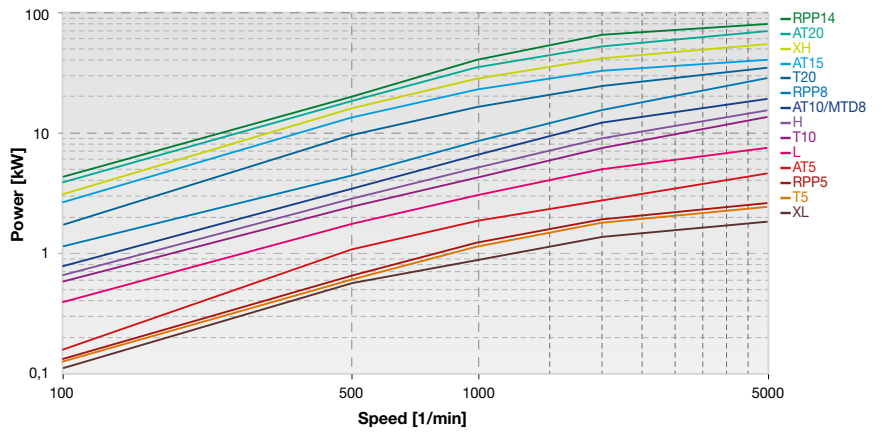
P = 2kW
 Revolution = 1500 1/min
 Center distance = 900 mm
 Speed ratio (request) = 1:2
 Max radial space = 55mm in the driven pulley
 Rotary presses
 Engine type B



BELT SELECTION TABLES

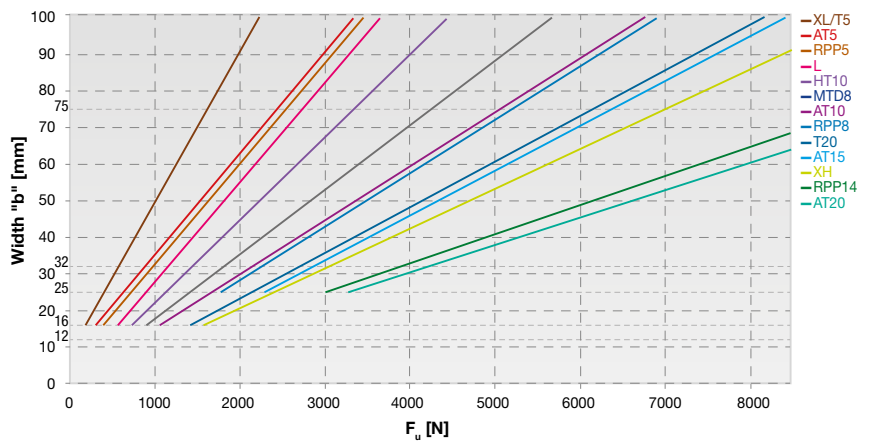
BELT PITCH SELECTION

TABLE 1



BELT WIDTH SELECTION

TABLE 2





BELT SELECTION TABLES

TABLE 3 - FRICTION COEFFICIENT BETWEEN BELT AND GUIDE

| | | |
|----------------------------------------|-----------------------------------|---------------------|
| | 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 | $\mu = 0,8$ |
| | Polyurethane NFT / aluminium | $\mu = 0,45$ |
| Volvent friction on dry surface | Bearing | $\mu = 0,015$ |
| | Roller / polyurethane belt | $\mu = 0,03 / 0,06$ |
| | Bush | $\mu = 0,15$ |

The choice of the SAFETY FACTOR C_s , depends on the operating condition.

The following table shows the value to be used:

TABLE 4 - SAFETY FACTOR

| Driven Machine | Driver | | |
|---------------------------------------|---------------|---------------|---------------|
| | Type A | Type B | Type C |
| Office machinery | | | |
| Typewriters | 1 | 1,1 | 1,2 |
| Computers, printers | 1,1 | 1,2 | 1,3 |
| Teleprinters, photocopiers | 1,1 | 1,2 | 1,3 |
| Motion-picture projectors and cameras | 1 | 1,2 | 1,2 |
| Domestic machinery | | | |
| Centrifuges | 1 | 1,1 | 1,2 |
| Kitchen appliances, universal slicers | 1,1 | 1,2 | 1,3 |
| Sewing machines | | | |
| Domestic sewing machines | 1,1 | 1,2 | 1,3 |
| Industrial sewing machines | 1,2 | 1,3 | 1,4 |
| Laundry machinery | | | |
| Driers | 1,2 | 1,4 | 1,6 |
| Washing machines | 1,4 | 1,6 | 1,8 |
| Bakery machinery and dough mixers | 1,2 | 1,4 | 1,6 |
| Conveyors | | | |
| Light-duty belt conveyors | 1,1 | 1,2 | 1,3 |
| Belt conveyor for ore, coal, sand | 1,2 | 1,4 | 1,6 |
| Heavy duty conveyors | 1,4 | 1,6 | 1,8 |
| Elevators, screw conveyors | 1,4 | 1,6 | 1,8 |
| Bucket elevators | 1,4 | 1,6 | 1,8 |
| Agitators | | | |
| Mixers for liquids | 1,2 | 1,4 | 1,6 |
| Mixers for semi-liquids | 1,3 | 1,5 | 1,7 |



BELT SELECTION TABLES

TABLE 4 - SAFETY FACTOR

| Driven Machine | Driver | | |
|-------------------------------------|--------|--------|--------|
| | Type A | Type B | Type C |
| Machine tools | | | |
| Lathes | 1,2 | 1,4 | 1,6 |
| Drills and grinders | 1,3 | 1,5 | 1,7 |
| Millers and planers | 1,3 | 1,5 | 1,7 |
| Woodworking machinery | | | |
| Lathes and band saws | 1,2 | 1,3 | 1,5 |
| Planers and disk saws | 1,2 | 1,4 | 1,6 |
| Sawmill machinery | 1,4 | 1,6 | 1,8 |
| Brick machinery | | | |
| Mixers | 1,4 | 1,6 | 1,8 |
| Pug mills | 1,6 | 1,8 | 2 |
| Textile machinery | | | |
| Spoolers and warping machines | 1,2 | 1,4 | 1,6 |
| Spinning and twisting machines | 1,3 | 1,5 | 1,7 |
| Paper machinery | | | |
| Agitators, calenders, driers | 1,2 | 1,4 | 1,6 |
| Pumps, beaters, pulpers | 1,4 | 1,6 | 1,8 |
| Printing machinery | | | |
| Linotype machines, cutters, folders | 1,2 | 1,4 | 1,6 |
| Rotary presses | 1,3 | 1,5 | 1,7 |
| Screens | | | |
| Drum screens | 1,2 | 1,4 | 1,6 |
| Vibrating screens | 1,3 | 1,5 | 1,7 |
| Fans, Blowers | | | |
| Exhauster, radial blowers | 1,4 | 1,6 | 1,8 |
| Mine ventilators, axial blowers | 1,6 | 1,8 | 2 |
| Compressors | | | |
| Helical compressors | 1,4 | 1,5 | 1,6 |
| Piston compressors | 1,6 | 1,8 | 2 |
| Pumps | | | |
| Centrifugal and gear pumps | 1,2 | 1,4 | 1,6 |
| Reciprocating pumps | 1,7 | 1,9 | 2,1 |
| Generators and exciters | 1,4 | 1,6 | 1,8 |
| Elevators and hoists | 1,4 | 1,6 | 1,8 |
| Centrifuges | 1,5 | 1,7 | 1,9 |
| Rubber machinery | 1,5 | 1,7 | 1,9 |
| Mills | | | |
| Hammer mills | 1,5 | 1,7 | 1,9 |
| Ball, roller and gravel mills | 1,7 | 1,9 | 2,1 |

Type A: electric motors with low starting torque (up to 1,5 times the rated torque).

Type B: electric motors with normal starting torque (1,5 to 2,5 times the rated torque).

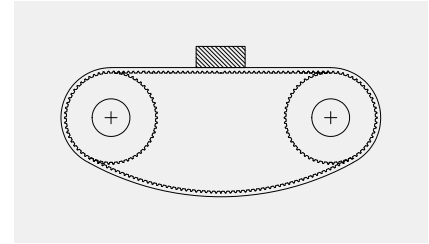
Type C: electric motors with high starting and breaking torque (over 2,5 times the related torque).

BELT INSTALLATION



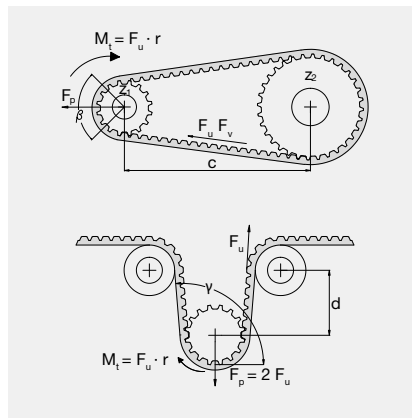
A major difficulty installing transmission belt is to achieve correct belt tension. Lifetime of support bearings and transmission belts and therefore reliability of the complete system largely depend on an optimally adjusted belt tension.

Pretension is the force needed to put tension into the system to avoid the belt jumping the pulleys as in the example beside:

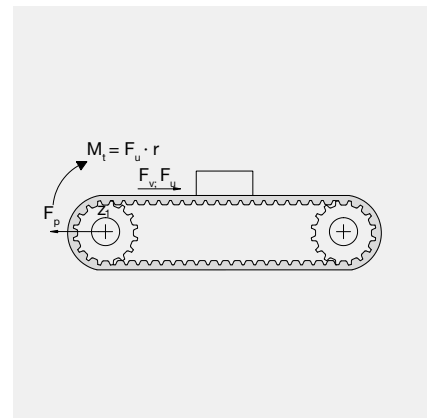


Not correct belt installation

For a correct system installation, all applications with MEGAFLEX belt can be summarized according to the following cases:



Power transmission



Conveyor transmission

In power transmission application, the pretension force is the load which has to be applied to the center of one of the driving system's pulleys in static conditions to avoid the derailing of the belt:

$$F_p = 2 \cdot F_v \cdot \sin \frac{\beta}{2}$$

| | |
|----------------|-------------------------------|
| $z < 60$ | $F_v = \frac{1}{3} \cdot F_u$ |
| $60 < z < 150$ | $F_v = \frac{1}{2} \cdot F_u$ |
| $z > 150$ | $F_v = \frac{2}{3} \cdot F_u$ |

- z = belt teeth number
- F_p = pretension
- F_u = peripheral force
- F_v = pretension on belt span
- $\beta = \pi - 2 \arcsin \left[\frac{p(z_L - z_S)}{2 \cdot c} \right]$

For omega and conveyor transmission: $F_p = F_u$

In omega application to grant good mesh between pulley and teeth and to respect belt flexibility avoiding excessive stress on the cord, we suggest $d = 4 \cdot$ belt width and angle $\gamma = 120^\circ$.



BELT INSTALLATION

PROCEDURE TO MEASURE

The procedure to measure the tension of the belt is to use a belt tensioning 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 the belt to vibrate at its natural frequency. The vibrations are detected by the sensing head and the frequency of vibration is displayed on the measuring unit. The relation between belt static tension (T_s) and frequency of vibration (f) may be calculated using the following formula:

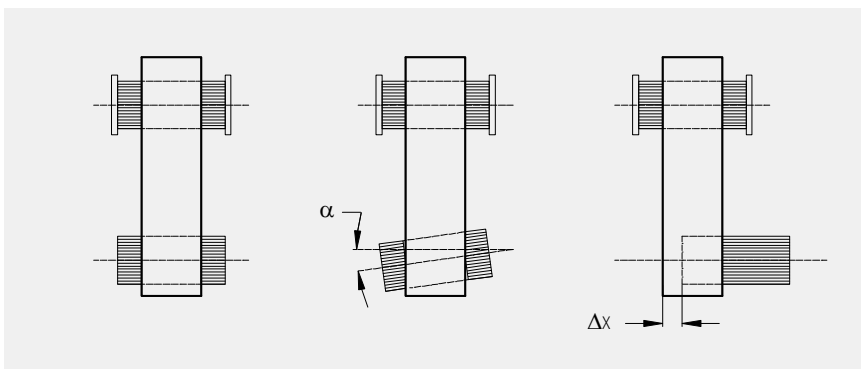
$$f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m}} \quad \text{or} \quad T_s = 4 \cdot m \cdot t^2 \cdot f^2$$

WHERE :

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

For a correct system functioning and to increase belt life, it is necessary a correct pulley installation: pulleys have to be parallel and aligned as shown in drawing 1 (correct configuration). If pulleys are not parallel as in drawing 2, belt could fall during functioning and this can damages to complete equipment.

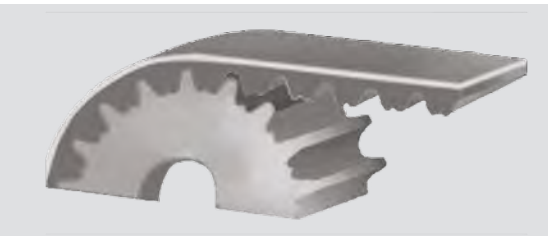
To grant a correct belt running α and Δx must be as smaller as possible. For more information, please contact our technical staff.



Drawing 1

Drawing 2

Drawing 3



POSITIONING

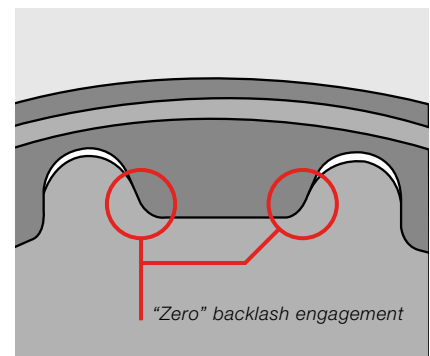
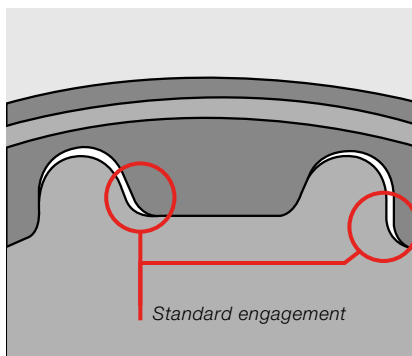
AND TRANSMISSION PRECISION

Backlash between belt and pulley teeth is very important for positioning precision 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 belt teeth or cords.

Maximum recommend pulley teeth is:

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



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

| AVAILABLE PITCH FOR "ZERO" BACKLASH PULLEY | | | | | | |
|--------------------------------------------|-------|---------|--------|-----|------|------|
| 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 systems because their parabolic profile reduces backlash and improves meshing quality.

MEGAFLEX

XL - XL DL

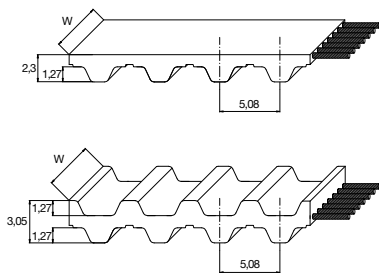


| | | | | | | | | |
|---------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Standard widths (inch) | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 600 |
| Standard widths (mm) | 12,7 | 19,05 | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 | 152,4 |
| Weight for standard belt (gr/m) | 28 | 42 | 56 | 85 | 112 | 170 | 224 | 340 |
| Weight for DL belt (gr/m) | 32 | 47 | 63 | 95 | 127 | 190 | 253 | 380 |

| | |
|---------------------------------|------------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1503,68 mm (1905 mm with NFT) till 22768,56 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

DL belt available only with standard steel, HF and stainless cord.

TOOTH PROFILE ACCORDING ISO 5296-1



TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (inch) | 50 | | 75 | | 100 | | 150 | | 200 | | 300 | | 400 | | 600 | |
|-------------------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 385 | 1540 | 620 | 2490 | 830 | 3325 | 1275 | 5105 | 1720 | 6885 | 2750 | 10450 | 4000 | 14010 | 6035 | 21135 |
| Kevlar® | 545 | 2195 | 885 | 3550 | 1180 | 4730 | 1815 | 7270 | 2450 | 9805 | 3915 | 14880 | 5700 | 19950 | 8595 | 30095 |
| HF | 505 | 2025 | 815 | 3270 | 1090 | 4360 | 1670 | 6695 | 2255 | 9035 | 3605 | 13710 | 5250 | 18380 | 7920 | 27730 |
| Stainless | 275 | 1110 | 445 | 1795 | 595 | 2390 | 915 | 3675 | 1235 | 4955 | 1980 | 7520 | 2880 | 10085 | 4345 | 15215 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 10 | 15 | 30 | 30 |
| Kevlar® | 10 | - | 30 | 20 |
| HF | 10 | 15 | 30 | 30 |
| Stainless | 13 | 18 | 35 | 35 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| | N° TEETH | DP | DE | N° TEETH | DP | DE |
|----|----------|-------|-------|----------|-------|-------|
| | 10 | 16,17 | 15,66 | 34 | 54,98 | 54,47 |
| 12 | 19,40 | 18,89 | 36 | 58,21 | 57,70 | |
| 13 | 21,02 | 20,51 | 38 | 61,45 | 60,94 | |
| 16 | 25,87 | 25,36 | 40 | 64,68 | 64,17 | |
| 18 | 29,11 | 28,60 | 44 | 71,15 | 70,64 | |
| 20 | 32,34 | 31,83 | | | | |
| 22 | 35,57 | 35,07 | | | | |
| 24 | 38,81 | 38,30 | | | | |
| 28 | 45,28 | 44,77 | | | | |
| 30 | 48,51 | 48,00 | | | | |
| 32 | 51,74 | 51,23 | | | | |

MEGAFLEX

L - L DL

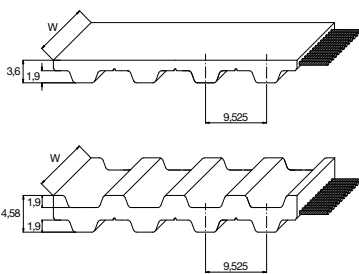


| | | | | | | | | |
|---------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
| STANDARD WIDTHS (inch) | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 600 |
| STANDARD WIDTHS (mm) | 12,7 | 19,05 | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 | 152,4 |
| Weight for standard belt (gr/m) | 53 | 71 | 95 | 143 | 190 | 285 | 380 | 570 |
| Weight for DL belt (gr/m) | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 600 |

| | |
|---------------------------------|------------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1504,95 mm (1905 mm with NFT) till 22764,75 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

DL belt available only with standard steel, HF and stainless cord.

TOOTH PROFILE ACCORDING ISO 5296-1



TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (inch) | 50 | | 75 | | 100 | | 150 | | 200 | | 300 | | 400 | | 600 | |
|-------------------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 825 | 3305 | 1335 | 5345 | 1780 | 7125 | 2735 | 10945 | 3690 | 14765 | 5895 | 22400 | 8580 | 30040 | 12945 | 45315 |
| HF | 770 | 3085 | 1245 | 4985 | 1660 | 6650 | 2550 | 10210 | 3440 | 13775 | 5500 | 20900 | 8005 | 28025 | 12075 | 42275 |
| Stainless | 675 | 2715 | 1095 | 4385 | 1460 | 5850 | 2245 | 8985 | 3030 | 12120 | 4840 | 18390 | 7045 | 24660 | 10625 | 37200 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 15 | 20 | 60 | 60 |
| HF | 12 | 18 | 40 | 40 |
| Stainless | 18 | 22 | 65 | 65 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| | N° TEETH | DP | DE | N° TEETH | DP | DE |
|----|----------|--------|-------|----------|--------|--------|
| | 12 | 36,38 | 35,62 | 36 | 109,15 | 108,39 |
| 15 | 45,48 | 44,72 | 40 | 121,28 | 120,52 | |
| 18 | 54,57 | 53,81 | 44 | 133,40 | 132,64 | |
| 20 | 60,64 | 59,88 | 48 | 145,53 | 144,76 | |
| 22 | 66,70 | 65,94 | 56 | 169,79 | 169,03 | |
| 24 | 72,77 | 72,01 | | | | |
| 26 | 78,83 | 78,07 | | | | |
| 28 | 84,89 | 84,13 | | | | |
| 30 | 90,96 | 90,20 | | | | |
| 32 | 97,02 | 96,26 | | | | |
| 34 | 103,08 | 102,32 | | | | |

MEGAFLEX

H - H DL

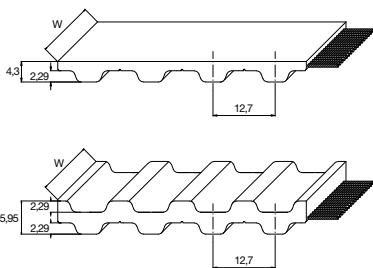


| | | | | | | | | |
|---------------------------------|-------------|--------------|-------------|-------------|-------------|-------------|--------------|--------------|
| Standard widths (inch) | 50 | 75 | 100 | 150 | 200 | 300 | 400 | 600 |
| Standard widths (mm) | 12,7 | 19,05 | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 | 152,4 |
| Weight for standard belt (gr/m) | 61 | 91 | 122 | 182 | 243 | 365 | 487 | 730 |
| Weight for DL belt (gr/m) | 66 | 99 | 132 | 197 | 263 | 395 | 527 | 790 |

| | |
|---------------------------------|----------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1511,3 mm (1905 mm with NFT) till 22758,4 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

DL belt available only with standard steel, HF and stainless cord.

TOOTH PROFILE ACCORDING ISO 5296-1



TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (inch) | 50 | | 75 | | 100 | | 150 | | 200 | | 300 | | 400 | | 600 | |
|-------------------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 995 | 3990 | 1695 | 6780 | 2290 | 9175 | 3490 | 13965 | 4785 | 19150 | 7665 | 29125 | 11170 | 39100 | 17100 | 59850 |
| Kevlar® | 640 | 2565 | 1025 | 4100 | 1410 | 5640 | 2180 | 8720 | 3075 | 12310 | 4860 | 18465 | 6480 | 24620 | 10845 | 37760 |
| HF | 1045 | 4180 | 1775 | 7105 | 2400 | 9610 | 3655 | 14630 | 5015 | 20060 | 8030 | 30510 | 11700 | 40960 | 17910 | 62700 |
| Stainless | 805 | 3230 | 1370 | 5490 | 1855 | 7425 | 2825 | 11305 | 3875 | 15500 | 6205 | 23575 | 9040 | 31650 | 13840 | 48450 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 14 | 20 | 80 | 60 |
| Kevlar® | 14 | - | 80 | 60 |
| HF | 14 | 18 | 50 | 50 |
| Stainless | 18 | 24 | 80 | 65 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| | N° TEETH | DP | DE | N° TEETH | DP | DE |
|----|----------|--------|-------|----------|--------|--------|
| | 14 | 56,60 | 55,23 | 40 | 161,70 | 160,33 |
| 16 | 64,68 | 63,31 | 44 | 177,87 | 176,50 | |
| 18 | 72,77 | 71,40 | 48 | 194,04 | 192,67 | |
| 20 | 80,85 | 79,48 | 52 | 210,21 | 208,84 | |
| 22 | 88,94 | 87,57 | 60 | 242,55 | 241,18 | |
| 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 | | | | |
| 38 | 153,62 | 152,25 | | | | |

MEGAFLEX

XH - XH DL

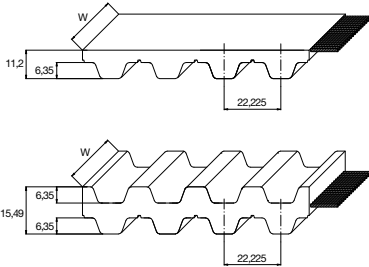


| STANDARD WIDTHS (inch) | 100 | 150 | 200 | 300 | 400 | 600 |
|---------------------------------|------|------|------|------|-------|-------|
| STANDARD WIDTHS (mm) | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 | 152,4 |
| Weight for standard belt (gr/m) | 267 | 400 | 533 | 800 | 1067 | 1600 |
| Weight for DL belt (gr/m) | 300 | 450 | 600 | 900 | 1200 | 1800 |

| | |
|---------------------------------|-------------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-1 mm |
| Standard thickness tolerance | +/-0,5 mm |
| Standard length | from 1511,3 mm (1911,35 mm with NFT) till 22758,4 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

DL belt available only with standard steel, HF and stainless cord.

TOOTH PROFILE ACCORDING ISO 5296-1



TOOTH RESISTANCE

| RPM (1/min) | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 8000 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| F _{p spec} (N/cm) | 115 | 111 | 108 | 105 | 103 | 101 | 92 | 86 | 81 | 78 | 70 | 65 | 57 | 51 | 43 | 37 | - | - |

TRACTION RESISTANCE

| Belt width (inch) | 100 | | 150 | | 200 | | 300 | | 400 | | 600 | |
|-------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 3155 | 12635 | 5185 | 20755 | 7220 | 28880 | 11400 | 43320 | 16760 | 58660 | 25525 | 89345 |
| HF | 3520 | 14095 | 5790 | 23160 | 8055 | 32220 | 12720 | 48335 | 18700 | 65455 | 28480 | 99690 |
| Stainless | 2510 | 10040 | 4120 | 16495 | 5735 | 22950 | 9060 | 34425 | 13320 | 46620 | 20285 | 71005 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 18 | 25 | 180 | 150 |
| HF | 18 | 22 | 120 | 120 |
| Stainless | 24 | 28 | 180 | 165 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

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



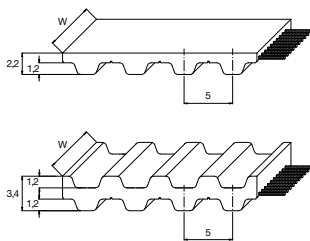
MEGAFLEX

T5 - T5 DL

| Standard widths (mm) | 10 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|----|----|----|----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 24 | 38 | 59 | 88 | 118 | 177 | 237 | 355 |
| Weight for DL belt (gr/m) | 27 | 44 | 68 | 87 | 137 | 205 | 274 | 410 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,15 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22770 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING DIN 7721-1



DL belt available only with standard steel, HF and standard stainless cord.

TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (mm) | 10 | | 16 | | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|---------------------|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 265 | 1065 | 475 | 1900 | 800 | 3205 | 1035 | 4155 | 1660 | 6650 | 2685 | 10210 | 3590 | 13655 | 5900 | 20660 |
| Kevlar® | 595 | 2390 | 1060 | 4255 | 1795 | 7180 | 2325 | 9310 | 3720 | 14895 | 6020 | 22875 | 8050 | 30590 | 13220 | 46280 |
| HP | 415 | 1665 | 740 | 2960 | 1250 | 5000 | 1620 | 6480 | 2590 | 10370 | 4190 | 15930 | 5605 | 21300 | 9205 | 32230 |
| HF | 350 | 1400 | 620 | 2490 | 1050 | 4205 | 1360 | 5450 | 2180 | 8720 | 3525 | 13395 | 4715 | 17915 | 7745 | 27105 |
| HPF | 530 | 2135 | 950 | 3800 | 1600 | 6410 | 2075 | 8310 | 3325 | 13300 | 5375 | 20425 | 7185 | 27310 | 11805 | 41325 |
| Stainless | 190 | 765 | 340 | 1365 | 575 | 2305 | 745 | 2990 | 1195 | 4785 | 1935 | 7353 | 2585 | 9830 | 4250 | 14875 |
| HP stainless | 470 | 1880 | 835 | 3340 | 1410 | 5640 | 1825 | 7315 | 2925 | 11700 | 4490 | 17970 | 6005 | 24035 | 9090 | 36365 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|--------------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 10 | 15 | 30 | 30 |
| Kevlar® | 12 | - | 30 | 30 |
| HP | 15 | - | 40 | 60 |
| HF | 10 | 15 | 30 | 30 |
| HPF | 12 | - | 40 | 40 |
| Stainless | 15 | 20 | 40 | 40 |
| HP stainless | 18 | - | 65 | 60 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| | N° TEETH | DP | DE | N° TEETH | DP | DE |
|----|----------|-------|-------|----------|-------|-------|
| | 10 | 15,92 | 15,09 | 36 | 57,30 | 56,47 |
| 12 | 19,10 | 18,27 | 40 | 63,66 | 62,93 | |
| 14 | 22,28 | 21,45 | 44 | 70,03 | 69,20 | |
| 15 | 23,87 | 23,04 | 48 | 76,39 | 75,57 | |
| 16 | 25,46 | 24,64 | 60 | 95,49 | 94,67 | |
| 18 | 28,65 | 27,82 | | | | |
| 20 | 31,83 | 31,00 | | | | |
| 24 | 38,20 | 37,37 | | | | |
| 28 | 44,56 | 43,73 | | | | |
| 30 | 47,75 | 46,92 | | | | |
| 32 | 50,93 | 50,10 | | | | |



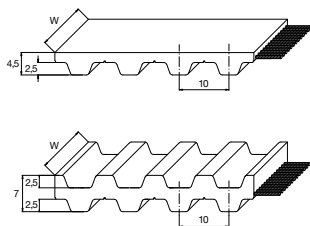
MEGAFLEX

T10 - T10 DL

| Standard widths (mm) | 12 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 60 | 80 | 125 | 160 | 250 | 375 | 500 | 750 |
| Weight for DL belt (gr/m) | 70 | 94 | 147 | 188 | 293 | 440 | 586 | 880 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22770 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING DIN 7721-1



DL belt available only with standard steel, HF and standard stainless cord.

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 |

TRACTION RESISTANCE

| Belt width(mm) | 12 | | 16 | | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|---------------------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 995 | 3990 | 1395 | 5585 | 2290 | 9175 | 2990 | 11970 | 4785 | 19150 | 7665 | 29125 | 10290 | 39100 | 16870 | 59050 |
| Kevlar® | 765 | 3075 | 1025 | 4100 | 1795 | 7180 | 2435 | 9745 | 3975 | 15900 | 6480 | 24620 | 8640 | 32830 | 14510 | 50785 |
| HP | 1350 | 5415 | 1805 | 7220 | 3155 | 12635 | 4285 | 17145 | 6990 | 27975 | 11400 | 43320 | 15200 | 57760 | 25525 | 89345 |
| HF | 1045 | 4180 | 1460 | 5850 | 2400 | 9610 | 3135 | 12540 | 5015 | 20060 | 8030 | 30510 | 10780 | 40960 | 17675 | 61860 |
| HPF | 1510 | 6040 | 2010 | 8055 | 3520 | 14095 | 4780 | 19130 | 7800 | 31215 | 12720 | 48335 | 16960 | 64445 | 28480 | 99690 |
| Stainless | 805 | 3230 | 1130 | 4520 | 1855 | 7425 | 2420 | 9690 | 3875 | 15500 | 6205 | 23575 | 8330 | 31650 | 13655 | 47800 |
| HP stainless | 1075 | 4300 | 1430 | 5735 | 2510 | 10040 | 3405 | 13625 | 5555 | 22230 | 9060 | 34425 | 12080 | 45900 | 20285 | 71005 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z _{min} | | Z _{minDL} | |
|--------------|--------------------|-------------------|--------------------|-------------------|
| | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
| Steel | 12 | 20 | 60 | 60 |
| Kevlar® | 15 | - | 60 | 60 |
| HP | 15 | - | 100 | 100 |
| HF | 12 | 20 | 50 | 50 |
| HPF | 14 | - | 80 | 80 |
| Stainless | 15 | 24 | 70 | 70 |
| HP stainless | 20 | - | 150 | 150 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| N° TEETH | DP | DE | N° TEETH | DP | DE |
|----------|--------|--------|----------|--------|--------|
| | | | | | |
| 12 | 38,20 | 36,35 | 36 | 114,59 | 112,74 |
| 14 | 44,56 | 42,71 | 40 | 127,32 | 125,48 |
| 15 | 47,75 | 45,90 | 44 | 140,06 | 138,21 |
| 16 | 50,93 | 49,08 | 48 | 152,79 | 150,94 |
| 18 | 57,30 | 55,45 | 60 | 190,99 | 189,14 |
| 20 | 63,66 | 61,81 | | | |
| 24 | 76,39 | 74,55 | | | |
| 26 | 82,76 | 80,91 | | | |
| 28 | 89,13 | 87,28 | | | |
| 30 | 95,49 | 93,65 | | | |
| 32 | 101,86 | 100,01 | | | |



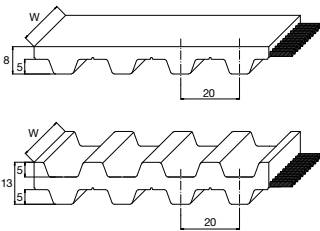
MEGAFLEX

T20 - T20 DL

| Standard widths (mm) | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|-----|-----|-----|-----|------|------|
| Weight for standard belt (gr/m) | 200 | 256 | 400 | 600 | 800 | 1200 |
| Weight for DL belt (gr/m) | 250 | 320 | 500 | 750 | 1000 | 1500 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/- 1 mm |
| Standard thickness tolerance | +/-0,45 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22760 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING DIN 7721-1



DL belt available only with standard steel, HF and standard stainless cord.

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) | 102 | 98 | 95 | 93 | 91 | 89 | 81 | 76 | 72 | 68 | 62 | 57 | 50 | 45 | 38 | 33 | 29 | - |

TRACTION RESISTANCE

| Belt width (mm) | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|---------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 3155 | 12635 | 4285 | 17145 | 6990 | 27975 | 11400 | 43320 | 15200 | 57760 | 25525 | 89345 |
| Kevlar® | 2035 | 8150 | 2775 | 11115 | 4630 | 18525 | 7605 | 28895 | 10335 | 39270 | 17145 | 60020 |
| HP | 4515 | 18075 | 6160 | 24650 | 10270 | 41085 | 16865 | 64095 | 22920 | 87105 | 38035 | 133120 |
| HF | 3520 | 14095 | 4780 | 19130 | 7800 | 31215 | 12720 | 48335 | 16960 | 64445 | 28480 | 99690 |
| HPF | 5025 | 20115 | 6855 | 27430 | 11425 | 45715 | 18765 | 71320 | 25505 | 96920 | 42320 | 148125 |
| Stainless | 2510 | 10040 | 3405 | 13625 | 5555 | 22230 | 9060 | 34425 | 12080 | 45900 | 20285 | 71005 |
| HP stainless | 3840 | 15360 | 5235 | 20945 | 8725 | 34910 | 14330 | 54460 | 19475 | 74010 | 32315 | 113115 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z _{min} | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|--------------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 15 | 25 | 120 | 120 |
| Kevlar® | 15 | - | 120 | 120 |
| HP | 20 | - | 150 | 150 |
| HF | 15 | 25 | 120 | 120 |
| HPF | 18 | - | 120 | 120 |
| Stainless | 20 | 28 | 130 | 130 |
| HP stainless | 24 | - | 160 | 160 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| N° TEETH | DP | DE | | | | |
|----------|--------|--------|---|---|----|-----------------|
| | | | L | B | DP | D _{is} |
| 15 | 95,49 | 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 | | | | |
| 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 | | | | |



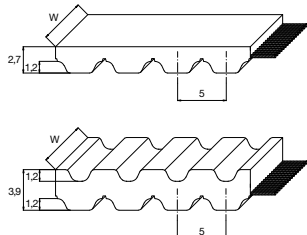
MEGAFLEX

AT5 - AT5 DL

| Standard widths (mm) | 10 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 37 | 59 | 92 | 117 | 183 | 275 | 367 | 550 |
| Weight for DL belt (gr/m) | 43 | 68 | 107 | 137 | 213 | 320 | 427 | 640 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,2 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22770 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING ISO 17396



DL belt available only with standard steel, HF and standard stainless cord.

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 |

TRACTION RESISTANCE

| Belt width (mm) | 10 | | 16 | | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|---------------------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 570 | 2290 | 1015 | 4070 | 1715 | 6870 | 2225 | 8910 | 3560 | 14255 | 5760 | 21895 | 7705 | 29275 | 12655 | 44300 |
| Kevlar® | 640 | 2565 | 1280 | 5130 | 2180 | 8720 | 2820 | 11285 | 4615 | 18465 | 7425 | 28215 | 9990 | 37960 | 16560 | 57965 |
| HP | 495 | 1995 | 995 | 3990 | 1695 | 6780 | 2195 | 8775 | 3590 | 14360 | 5775 | 21945 | 7770 | 29525 | 12880 | 45085 |
| HF | 530 | 2135 | 950 | 3800 | 1600 | 6410 | 2075 | 8310 | 3325 | 13300 | 5375 | 20425 | 7185 | 27310 | 11805 | 41325 |
| HPF | 520 | 2090 | 1045 | 4180 | 1775 | 7105 | 2295 | 9195 | 3760 | 15045 | 6050 | 22990 | 8140 | 30930 | 13495 | 47230 |
| Stainless | 470 | 1880 | 835 | 3340 | 1410 | 5640 | 1825 | 7310 | 2925 | 11700 | 4730 | 17970 | 6325 | 24035 | 10390 | 36365 |
| HP stainless | 400 | 1615 | 805 | 3230 | 1370 | 5490 | 1775 | 7105 | 2905 | 11625 | 4675 | 17765 | 6290 | 23900 | 10425 | 36495 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z _{min} | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|--------------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 15 | 18 | 60 | 25 |
| Kevlar® | 15 | - | 60 | 25 |
| HP | 25 | - | 80 | 80 |
| HF | 12 | 15 | 40 | 25 |
| HPF | 20 | - | 70 | 70 |
| Stainless | 18 | 22 | 65 | 60 |
| HP stainless | 25 | - | 80 | 80 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| N° TEETH | DP | DE | N° TEETH | DP | DE |
|----------|-------|-------|----------|-------|-------|
| | | | | | |
| 15 | 23,87 | 22,64 | 42 | 66,85 | 65,62 |
| 16 | 25,46 | 24,24 | 44 | 70,03 | 68,80 |
| 18 | 28,65 | 27,42 | 48 | 76,39 | 75,17 |
| 20 | 31,83 | 30,60 | 60 | 95,49 | 94,27 |
| 22 | 35,01 | 33,79 | | | |
| 24 | 38,20 | 36,97 | | | |
| 25 | 39,79 | 38,56 | | | |
| 28 | 44,56 | 43,33 | | | |
| 32 | 50,93 | 49,70 | | | |
| 36 | 57,30 | 56,07 | | | |



MEGAFLEX

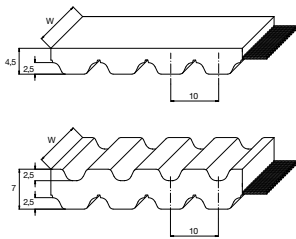
AT10 - AT10 DL

| Standard widths (mm) | 12 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|----|-----|-----|-----|-----|-----|-----|------|
| Weight for standard belt (gr/m) | 72 | 97 | 150 | 190 | 300 | 450 | 600 | 900 |
| Weight for DL belt (gr/m) | 94 | 117 | 195 | 234 | 390 | 585 | 780 | 1170 |

| | |
|-------------------------------------------------------------|------------------------------------------------------|
| Standard compound | white polyurethan thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22770 mm |
| Standard length tolerance | See page 29 |
| Standard length tolerance for HP, HPF, HP stainless, kevlar | +0/-1 mm/m |
| Special version belt on request | See page 49 |

DL belt available only with standard steel, HF and standard stainless cord.

TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (mm) | 12 | | 16 | | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|---------------------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 1350 | 5415 | 1805 | 7220 | 3155 | 12635 | 4285 | 17145 | 6990 | 27975 | 11400 | 43320 | 15200 | 57760 | 25525 | 89345 |
| Kevlar® | 1405 | 5620 | 2105 | 8435 | 3865 | 15465 | 5270 | 21090 | 8785 | 35150 | 14430 | 54830 | 19610 | 74515 | 32535 | 113885 |
| HP | 1640 | 6570 | 2465 | 9860 | 4515 | 18075 | 6160 | 24650 | 10270 | 41085 | 16865 | 64095 | 22920 | 87105 | 38035 | 133120 |
| HF | 1510 | 6040 | 2010 | 8055 | 3520 | 14095 | 4780 | 19130 | 7800 | 31215 | 12720 | 48335 | 16960 | 64445 | 28480 | 99690 |
| HPF | 1825 | 7315 | 2740 | 10970 | 5025 | 20115 | 6855 | 27430 | 11425 | 45715 | 18765 | 71320 | 25505 | 96920 | 42320 | 148125 |
| Stainless | 1075 | 4300 | 1430 | 5735 | 2510 | 10040 | 3405 | 13625 | 5555 | 22230 | 9060 | 34425 | 12080 | 45900 | 20285 | 71005 |
| HP stainless | 1395 | 5585 | 2090 | 8375 | 3840 | 15360 | 5235 | 20945 | 8725 | 34910 | 14330 | 54460 | 19475 | 74010 | 32315 | 113115 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z _{min} | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|--------------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 15 | 25 | 120 | 50 |
| Kevlar® | 15 | - | 120 | 50 |
| HP | 25 | - | 150 | 80 |
| HF | 15 | 25 | 80 | 50 |
| HPF | 16 | - | 100 | 60 |
| Stainless | 19 | 28 | 130 | 130 |
| HP stainless | 26 | - | 150 | 150 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| N° TEETH | DP | DE | N° TEETH | DP | DE |
|----------|--------|--------|----------|--------|--------|
| | | | | | |
| 16 | 50,93 | 49,08 | 40 | 127,32 | 125,48 |
| 18 | 57,30 | 55,45 | 44 | 140,06 | 138,21 |
| 19 | 60,48 | 58,63 | 48 | 152,79 | 150,94 |
| 20 | 63,66 | 61,81 | 60 | 190,99 | 189,14 |
| 22 | 70,03 | 68,18 | | | |
| 24 | 76,39 | 74,55 | | | |
| 26 | 82,76 | 80,91 | | | |
| 28 | 89,13 | 87,28 | | | |
| 30 | 95,49 | 93,65 | | | |
| 32 | 101,86 | 100,01 | | | |

MEGAFLEX

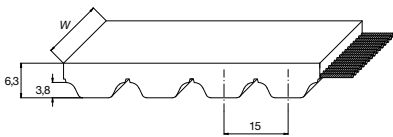
AT15



| STANDARD WIDTHS (mm) | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|-----|-----|-----|------|------|
| Weight for standard belt (gr/m) | 363 | 567 | 750 | 1133 | 1700 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | S&Z zinc plated steel |
| Standard width tolerance | +/-1 mm |
| Standard thickness tolerance | +/-0,45 mm |
| Standard length | from 1500 mm (1905 mm with NFT) till 22770 mm |
| Standard length tolerance | - 0,5 / -1,5 mm/m |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

| | | | | | | | | | | | | | | | | | | |
|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| RPM (1/min) | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 8000 |
| $F_{p\ spec}$ (N/cm) | 110 | 109 | 106 | 104 | 102 | 101 | 94 | 87 | 84 | 80 | 72 | 66 | 57 | 50 | 39 | 32 | 26 | - |

TRACTION RESISTANCE

| Belt width (mm) | 32 | | 50 | | 75 | | 100 | | 150 | |
|-----------------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 9120 | 36480 | 14440 | 57760 | 23200 | 88160 | 31200 | 118560 | 51245 | 179360 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | |
|-------|-----------|--------------------|-------------------|
| | | | |
| | Z_{min} | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
| Steel | 25 | 250 | 120 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| | N° TEETH | DP | DE |
|----|----------|--------|--------|
| | 25 | 119,37 | 116,89 |
| | 28 | 133,69 | 131,21 |
| | 30 | 143,24 | 140,76 |
| | 34 | 162,34 | 159,86 |
| | 40 | 190,99 | 188,51 |
| | 42 | 200,54 | 198,05 |
| | 48 | 229,18 | 226,70 |
| 54 | 257,83 | 255,35 | |
| 60 | 286,48 | 284,00 | |



MEGAFLEX

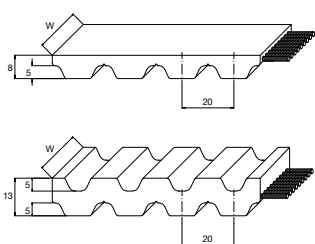
AT20 - AT20 DL

| Standard widths (mm) | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|-----|-----|-----|-----|------|------|
| Weight for standard belt (gr/m) | 250 | 320 | 500 | 750 | 1000 | 1500 |
| Weight for DL belt (gr/m) | 317 | 405 | 633 | 950 | 1267 | 1900 |

| | |
|--------------------------------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-1 mm |
| Standard thickness tolerance | +/-0,45 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22760 mm |
| Standard length tolerance | See page 29 |
| Standard length tolerance for HP, HP stainless, kevlar | +0/-0,8 mm/m |
| Special version belt on request | See page 49 |

DL belt available only with standard steel, HF and standard stainless cord.

TOOTH PROFILE ACCORDING ISO 17396



TOOTH RESISTANCE

| RPM (1/min) | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 8000 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| F _{p spec} (N/cm) | 147 | 144 | 142 | 139 | 137 | 135 | 126 | 119 | 112 | 107 | 97 | 88 | 76 | 67 | 58 | 43 | 35 | - |

TRACTION RESISTANCE

| Belt width (mm) | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|---------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 4515 | 18075 | 6160 | 24650 | 10270 | 41085 | 16865 | 64095 | 22920 | 87105 | 38035 | 133120 |
| Kevlar® | 2810 | 11245 | 3515 | 14060 | 6325 | 25305 | 10360 | 39365 | 14060 | 53425 | 23295 | 81545 |
| HP | 6080 | 24320 | 7600 | 30400 | 13680 | 54720 | 22400 | 85120 | 30400 | 115520 | 50375 | 176320 |
| HF | 5025 | 20115 | 6855 | 27430 | 11425 | 45715 | 18765 | 71320 | 25505 | 96920 | 42320 | 148125 |
| Stainless | 3840 | 15360 | 5235 | 20945 | 8725 | 34910 | 14330 | 54460 | 19475 | 74010 | 32315 | 113115 |
| HP Stainless | 4275 | 17100 | 5340 | 21375 | 9615 | 38475 | 15750 | 59850 | 21375 | 81225 | 35420 | 123975 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z _{min} | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|--------------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 18 | 25 | 180 | 120 |
| Kevlar® | 18 | - | 180 | 120 |
| HP | 25 | - | 250 | 160 |
| HF | 18 | 25 | 150 | 120 |
| Stainless | 20 | 26 | 200 | 150 |
| HP stainless | 26 | - | 260 | 180 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY 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 |
| 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 |

MEGAFLEX

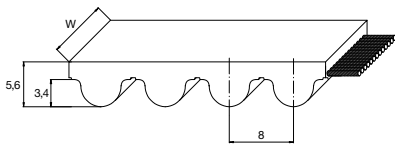
MTD8



| STANDARD WIDTHS (mm) | 15 | 20 | 30 | 50 | 85 | 100 | 150 |
|---------------------------------|----|-----|-----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 90 | 120 | 180 | 300 | 510 | 600 | 900 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1504 mm (1904 mm with NFT) till 22768 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING ISO 13050



TOOTH RESISTANCE

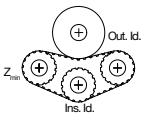
| | | | | | | | | | | | | | | | | | | |
|----------------------|----|----|----|----|----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| RPM (1/min) | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 8000 |
|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

TRACTION RESISTANCE

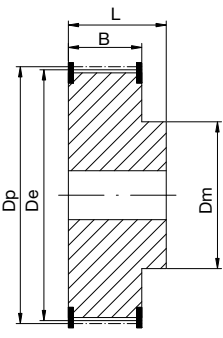
| Belt width (mm) | 15 | | 20 | | 30 | | 50 | | 85 | | 100 | | 150 | |
|------------------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 895 | 3590 | 1295 | 5185 | 2090 | 8375 | 3590 | 14360 | 6615 | 25135 | 7665 | 29125 | 12880 | 45085 |
| Kevlar® | 1150 | 4615 | 1665 | 6665 | 2690 | 10770 | 4615 | 18465 | 8505 | 32315 | 9990 | 37960 | 16560 | 57965 |
| HF | 940 | 3760 | 1355 | 5430 | 2190 | 8775 | 3760 | 15045 | 6930 | 26330 | 8030 | 30510 | 13495 | 47230 |
| Stainless | 725 | 2905 | 1045 | 4195 | 1695 | 6780 | 2905 | 11625 | 5085 | 20345 | 5890 | 23575 | 9120 | 36495 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z_{min} |  | |
|-----------|-----------|-------------------------------------------------------------------------------------|-------------------|
| | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
| Steel | 20 | 80 | 40 |
| Kevlar® | 20 | 100 | 50 |
| HF | 20 | 80 | 40 |
| Stainless | 24 | 110 | 80 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

|  | N° TEETH | DP | DE | N° TEETH | DP | DE |
|-------------------------------------------------------------------------------------|----------|--------|--------|----------|--------|--------|
| | | 20 | 50,93 | 49,58 | 48 | 122,23 |
| | 22 | 56,02 | 54,65 | 56 | 142,60 | 141,23 |
| | 24 | 61,12 | 59,75 | 64 | 162,97 | 161,60 |
| | 26 | 66,21 | 64,84 | 72 | 183,35 | 181,97 |
| | 28 | 71,30 | 70,08 | 112 | 285,21 | 283,83 |
| | 32 | 81,49 | 80,16 | 144 | 366,69 | 365,32 |
| | 36 | 91,67 | 90,30 | | | |
| | 40 | 101,86 | 100,49 | | | |
| | 44 | 112,05 | 110,67 | | | |



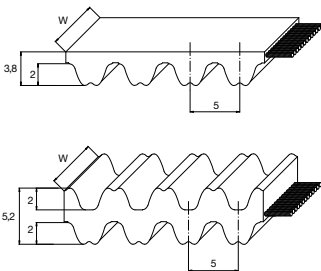
MEGAFLEX

RPP5 - RPP5 DL

| Standard widths (mm) | 10 | 15 | 25 | 30 | 50 | 85 | 100 | 150 |
|---------------------------------|----|----|-----|-----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 43 | 64 | 85 | 128 | 213 | 363 | 427 | 640 |
| Weight for DL belt (gr/m) | 47 | 71 | 118 | 142 | 237 | 402 | 473 | 710 |

| | |
|---------------------------------|-----------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | Nylon fabric (NFT) |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,2 mm |
| Standard length | 1900 mm till 22770 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING ISO 13050



DL belt available only with standard steel, HF and standard stainless cord.

TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (mm) | 10 | | 15 | | 25 | | 30 | | 50 | | 85 | | 100 | | 150 | |
|------------------|--------|------|--------|------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 570 | 2290 | 950 | 3815 | 1715 | 6870 | 2100 | 8400 | 3560 | 14255 | 6235 | 24950 | 7315 | 29275 | 11655 | 44300 |
| HF | 530 | 2135 | 890 | 3560 | 1600 | 6410 | 1955 | 7835 | 3325 | 13300 | 5815 | 23275 | 6825 | 27310 | 10875 | 41325 |
| Stainless | 470 | 1880 | 780 | 3135 | 1410 | 5640 | 1720 | 6895 | 2925 | 11700 | 5120 | 20480 | 6005 | 24035 | 9570 | 36365 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 15 | 18 | 60 | 25 |
| HF | 15 | 18 | 40 | 25 |
| Stainless | 18 | 22 | 65 | 65 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

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



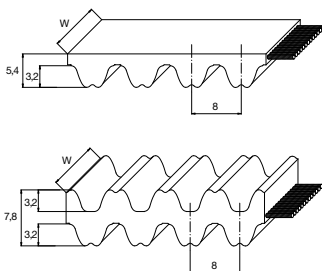
MEGAFLEX

RPP8 - RPP8 DL

| Standard widths (mm) | 15 | 20 | 30 | 50 | 85 | 100 | 150 |
|---------------------------------|-----|-----|-----|-----|-----|-----|------|
| Weight for standard belt (gr/m) | 98 | 131 | 196 | 327 | 555 | 653 | 980 |
| Weight for DL belt (gr/m) | 110 | 147 | 220 | 367 | 623 | 733 | 1100 |

| | |
|---------------------------------|-----------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | Nylon fabric (NFT) |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | 1904 mm till 22768 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING ISO 13050



DL belt available only with standard steel, HF and standard stainless cord.

TOOTH RESISTANCE

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

TRACTION RESISTANCE

| Belt width (mm) | 15 | | 20 | | 30 | | 50 | | 85 | | 100 | | 150 | |
|-----------------|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 1350 | 5415 | 2030 | 8120 | 3155 | 12635 | 5640 | 22560 | 10685 | 40610 | 12585 | 47830 | 20885 | 73100 |
| Kevlar® | 2105 | 8435 | 3160 | 12650 | 4920 | 19680 | 8785 | 35150 | 16650 | 63270 | 19610 | 74515 | 32535 | 113885 |
| HF | 1510 | 6040 | 2265 | 9060 | 3520 | 14095 | 6290 | 25175 | 11925 | 45315 | 14045 | 53370 | 23300 | 81565 |
| Stainless | 1075 | 4300 | 1610 | 6455 | 2510 | 10040 | 4480 | 17930 | 8490 | 32275 | 10000 | 38010 | 16595 | 58095 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 18 | 25 | 100 | 45 |
| Kevlar® | 18 | - | 100 | 45 |
| HF | 18 | 25 | 80 | 40 |
| Stainless | 20 | 28 | 110 | 60 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

| | N° TEETH | DP | DE | N° TEETH | DP | DE |
|----|----------|--------|-------|----------|--------|--------|
| | 18 | 45,84 | 44,49 | 64 | 162,97 | 161,60 |
| 22 | 56,02 | 54,65 | 72 | 183,35 | 181,97 | |
| 24 | 61,12 | 59,74 | 90 | 229,18 | 227,81 | |
| 26 | 66,21 | 64,84 | 144 | 366,69 | 365,32 | |
| 28 | 71,30 | 69,93 | 192 | 488,92 | 487,55 | |
| 32 | 81,49 | 80,12 | | | | |
| 36 | 91,67 | 90,30 | | | | |
| 38 | 96,77 | 95,39 | | | | |
| 44 | 112,05 | 110,67 | | | | |
| 48 | 122,23 | 120,86 | | | | |
| 54 | 137,51 | 136,14 | | | | |



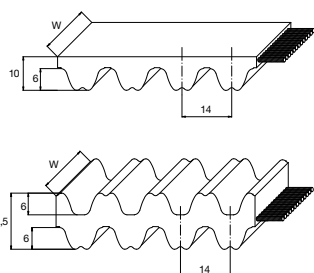
MEGAFLEX

RPP14 - RPP14 DL

| Standard widths (mm) | 25 | 40 | 55 | 85 | 115 | 150 |
|---------------------------------|-----|-----|-----|------|------|------|
| Weight for standard belt (gr/m) | 308 | 493 | 678 | 1048 | 1418 | 1850 |
| Weight for DL belt (gr/m) | 350 | 560 | 770 | 1190 | 1610 | 2100 |

| | |
|---------------------------------|-----------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | Nylon fabric (NFT) |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,1 mm |
| Standard thickness tolerance | +/-0,4 mm |
| Standard length | 1904 mm till 22764 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

TOOTH PROFILE ACCORDING ISO 13050



DL belt available only with standard steel, HF and standard stainless cord.

TOOTH RESISTANCE

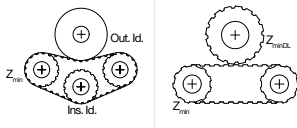
| RPM (1/min) | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 | 3000 | 4000 | 5000 | 8000 |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| F _{p spec} (N/cm) | 140 | 137 | 135 | 133 | 131 | 128 | 118 | 111 | 105 | 101 | 91 | 84 | 75 | 62 | 52 | 40 | 30 | - |

TRACTION RESISTANCE

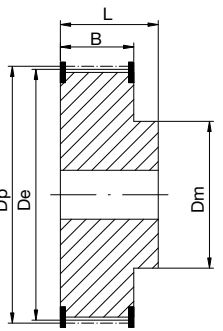
| Belt width (mm) | 25 | | 40 | | 55 | | 85 | | 115 | | 150 | |
|------------------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 6080 | 24320 | 10640 | 42560 | 16000 | 60800 | 26400 | 100320 | 39085 | 136800 | 52110 | 182400 |
| Stainless | 4275 | 17100 | 7480 | 29925 | 11250 | 42750 | 18560 | 70535 | 27480 | 96185 | 36640 | 128250 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| |  | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
|-----------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------------------|
| | Z _{min} | Z _{minDL} | | |
| Steel | 32 | 40 | 250 | 145 |
| Stainless | 38 | 44 | 280 | 170 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)

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

MEGAFLEX

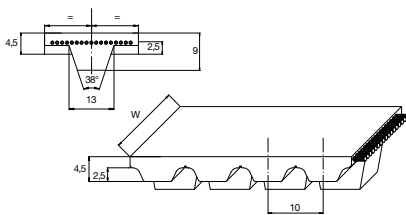
ATG10



| STANDARD WIDTHS (mm) | 25 | 32 | 50 | 75 | 100 | 150 |
|---------------------------------|-----|-----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 180 | 220 | 330 | 480 | 630 | 930 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white* polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22770 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

(* In this photo, MEGAFLEX FCM with light blue compound)



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 |

TRACTION RESISTANCE

| Belt width (mm) | 25 | | 32 | | 50 | | 75 | | 100 | | 150 | |
|-----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 3155 | 12635 | 4285 | 17145 | 6990 | 27975 | 11400 | 43320 | 15200 | 57760 | 25525 | 89345 |
| Kevlar® | 2590 | 10370 | 3515 | 14075 | 5740 | 22970 | 9360 | 35565 | 12480 | 47420 | 20955 | 73355 |
| HF | 3520 | 14095 | 4780 | 19130 | 7800 | 31215 | 12720 | 48335 | 16960 | 64445 | 28480 | 99690 |
| Stainless | 2510 | 10040 | 3405 | 13625 | 5555 | 22230 | 9060 | 34425 | 12080 | 45900 | 20285 | 71005 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z _{min} | | |
|-----------|------------------|--------------------|-------------------|
| | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
| Steel | 25 | 120 | 100 |
| Kevlar® | 25 | 120 | 100 |
| HF | 25 | 100 | 80 |
| Stainless | 31 | 130 | 130 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY 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 | |



MEGAFLEX

P2

| STANDARD WIDTHS (mm) | 25 | 50 | 75 | 100 | 150 |
|---------------------------------|-----|-----|-----|-----|-----|
| Weight for standard belt (gr/m) | 105 | 210 | 315 | 420 | 630 |

| | |
|---------------------------------|------------------------------------------------------|
| Standard compound | white polyurethane thermoplastic 92ShA |
| Standard back cover | none |
| Standard tooth cover | none |
| Standard cord | zinc plated steel |
| Standard width tolerance | +/-0,5 mm |
| Standard thickness tolerance | +/-0,3 mm |
| Standard length | from 1500 mm (1900 mm with NFT) till 22770 mm |
| Standard length tolerance | See page 34 |
| Special version belt on request | See page 49 |

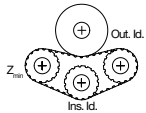


TRACTION RESISTANCE

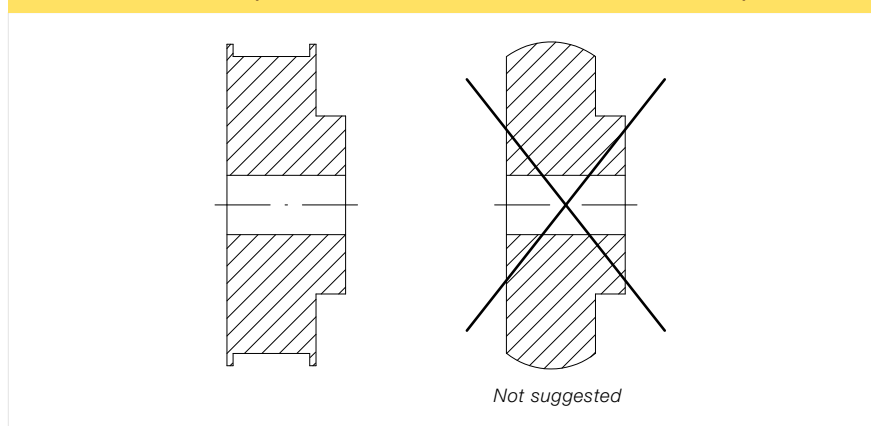
| Belt width (mm) | 25 | | 50 | | 75 | | 100 | | 150 | |
|------------------|--------|------|--------|------|--------|-------|--------|-------|--------|-------|
| | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. | M.T.L. | B.S. |
| Steel | 1125 | 4510 | 2255 | 9025 | 3800 | 14440 | 5460 | 20755 | 9025 | 31585 |
| Stainless | 895 | 3585 | 1790 | 7170 | 3020 | 11475 | 4340 | 16495 | 7170 | 25100 |

Average values in N (M.T.L. = Max Traction Load, B.S. = Breaking Strength)

FLEXION RESISTANCE

| | Z_{min} |  | |
|-----------|-----------|-------------------------------------------------------------------------------------|-------------------|
| | | OUTSIDE IDLER (mm) | INSIDE IDLER (mm) |
| Steel | 45 | 90 | 50 |
| Stainless | 60 | 150 | 80 |

PULLEYS (FOR MORE DETAILS PLEASE SEE OUR PULLEY CATALOGUE)



MEASURING LENGTHS

LENGTH TOLERANCES

MEGAFLEX are custom made manufactured belts, they are available tooth by tooth on the following range:

- from 1500 mm to 22770 mm length
- from 1900 mm to 22770 mm length for nylon fabric teeth version

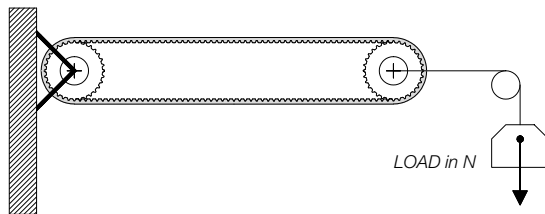
For AT10 and AT20 with HP, HPF and Kevlar® cords and for AT15, check length tolerance on belt data pages 25, 26 and 27:



LENGTH TOLERANCES (mm)

| UP TO | UP TO | UP TO |
|----------------|----------------|---------------------|
| 1700 mm ± 1,13 | 3750 mm ± 2,03 | 8000 mm ± 3,70 |
| 1900 mm ± 1,22 | 4000 mm ± 2,11 | 9000 mm ± 4,09 |
| 2120 mm ± 1,31 | 4250 mm ± 2,24 | 11000 mm ± 4,80 |
| 2240 mm ± 1,36 | 4500 mm ± 2,32 | 12000 mm on request |
| 2360 mm ± 1,44 | 4750 mm ± 2,40 | 13000 mm on request |
| 2500 mm ± 1,49 | 5300 mm ± 2,64 | 14000 mm on request |
| 2650 mm ± 1,57 | 5600 mm ± 2,72 | 15000 mm on request |
| 2800 mm ± 1,61 | 6000 mm ± 2,92 | 16000 mm on request |
| 3000 mm ± 1,70 | 6300 mm ± 3,04 | 17000 mm on request |
| 3150 mm ± 1,74 | 6700 mm ± 3,19 | 18000 mm on request |
| 3350 mm ± 1,82 | 7100 mm ± 3,35 | 19000 mm on request |
| 3550 mm ± 1,91 | 7500 mm ± 3,51 | 20000 mm on request |

The above length tolerance are tested with following system.



MEASURING LOAD IN N FOR BELT WIDTH

| TYPE | WIDTH (mm) | 6 | 10 | 12 | 16 | 20 | 25 | 32 | 50 | 75 | 100 | 150 |
|-------|------------|----|----|----|-----|-----|-----|-----|------|------|------|------|
| T5 | | 20 | 40 | | 60 | | 90 | 120 | 190 | 280 | | |
| T10 | | | | | 90 | | 140 | 170 | 270 | 420 | | |
| T20 | | | | | | | 265 | 340 | 540 | 800 | 1100 | |
| AT5 | | | 50 | | 80 | | 125 | 160 | 250 | 375 | | |
| AT10 | | | | | | | 270 | 340 | 540 | 800 | 1100 | |
| AT15 | | | | | | | | 640 | 1030 | 1570 | 2100 | 3150 |
| AT20 | | | | | | | | 500 | 800 | 1200 | 1600 | |
| MTD8 | | | | | 170 | | 270 | | 540 | | | |
| RPP5 | | | 50 | | | 94 | | | 240 | | | |
| RPP8 | | | | | 170 | 220 | 270 | | 540 | | | |
| RPP14 | | | | | | | 800 | | 1300 | | | |

| TYPE | WIDTH (mm) | | | 12,7 | 19,05 | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 | 152,4 |
|------|------------|--|--|------|-------|------|------|------|------|-------|-------|
| XL | | | | 40 | 69 | 90 | 140 | | | | |
| L | | | | 63 | 94 | 125 | 180 | | | | |
| H | | | | | | 140 | 200 | 260 | | | |
| XH | | | | | | | 600 | 800 | 1200 | | |

Special length tolerance on request.

CLEATS



Megadyne timing belts can be customised with profiles welded on the backside. All the cleats are made using the same thermoplastic polyurethane as the MEGAFLEX body (white PU 92 ShA).

The profiles are attached with the best technology available, the High Vibration System.

The production process for these profiles is very flexible; Megadyne can design any profile to meet the specific requirement of the customer, in order to check and develop all the needed special profiles.

STANDARD PARALLELEPIPED PROFILES

Megadyne can produce, as standard cleats, the parallelepiped profiles, starting from a thermoplastic polyurethane strip roll and cutting until the requested profile dimension.

The t value (thickness) is available from 2 until 13 mm, the h value (height) can be from 3 until 120 mm and the width can be 150 mm maximum.

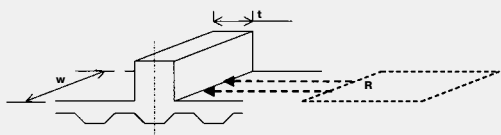
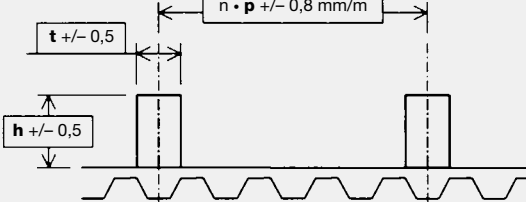
Megadyne recommend that the profile spacing were multiple of the belt pitch; in any case, for special inquiries and small quantities, it is possible to weld the profiles also in others positions; the feasible dimensions, with the standard process tolerances, are introduced in the following sketch.

The tolerances on the position are ± 0.5 mm.

The cumulative tolerance on the spacing of the profiles is the same of the length tolerance for our standard belts (± 0.8 mm/m) (tighter tolerances are available on request).

Due to the welding process, a bead of material develops at the meeting point of profile and belt.

In any case, Megadyne always remove this welding bead.



PROFILE MECHANICAL RESISTANCE

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

- Section base cleats resistance (R) becomes bigger, increasing:
 - Cleats width (w)
 - Cleats thickness (t)
- Cleat stiffness is bigger:
 - Increasing cleat thickness (t)
 - Using special moulded profiles, like STDE0006, STDE0008, STDE0010 and STMI0012 types



CLEATS

MINIMUM NUMBER OF PULLEY TEETH FOR BELTS WITH PROFILES

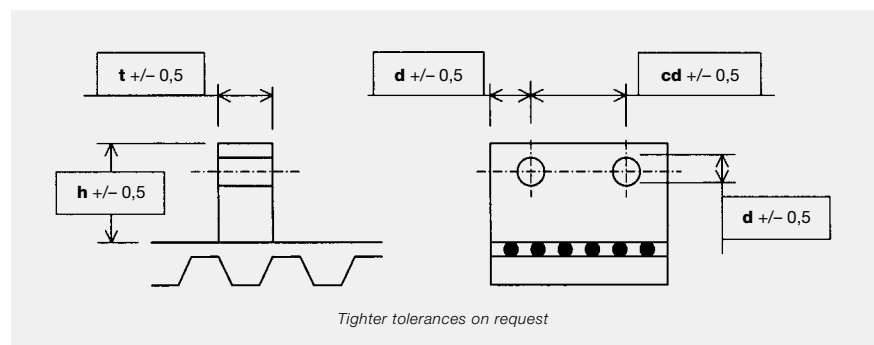
The profiles presence can change the belt flexibility properties; the two factors that affect the original flexibility are the following:

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

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

| 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 | 18 | 18 | 20 |
| T5/AT5 | 18 | 18 | 25 | 40 | 50 | 100 |
| T10/AT10 | 14 | 14 | 14 | 18 | 25 | 45 |
| AT15 | 16 | 16 | 16 | 18 | 25 | 40 |
| 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 |
| AT15 | 20 | 20 | 30 | 40 | 45 | 54 |
| 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 this kind of cleats.

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

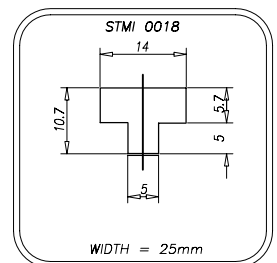
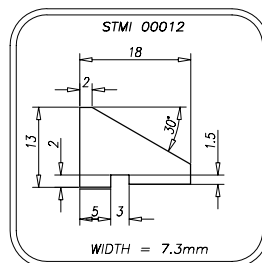
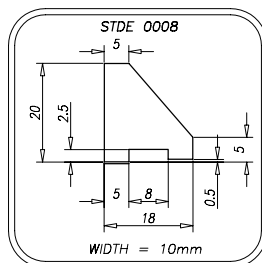
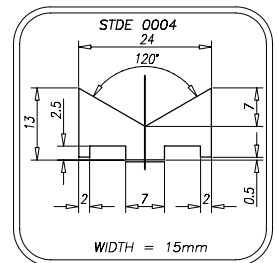
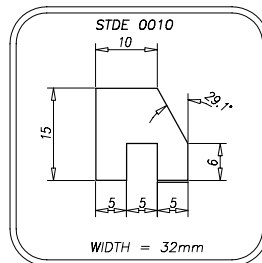
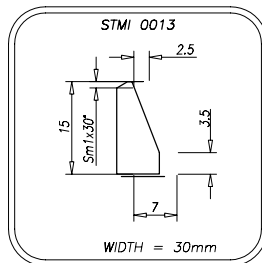
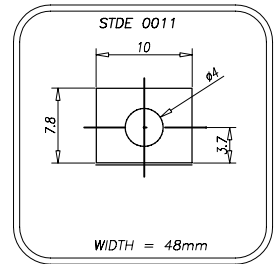
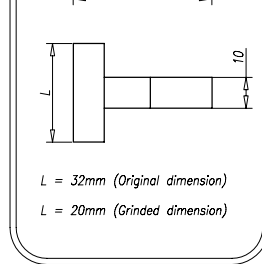
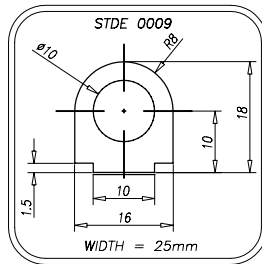
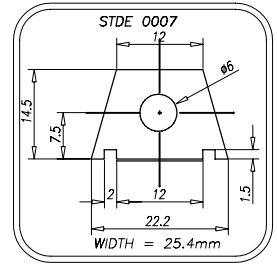
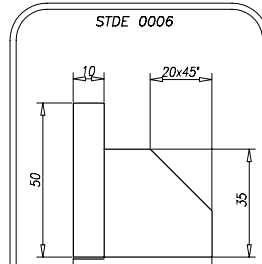
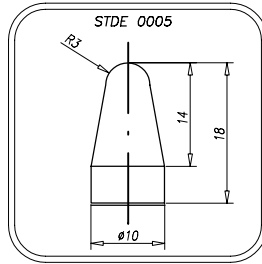
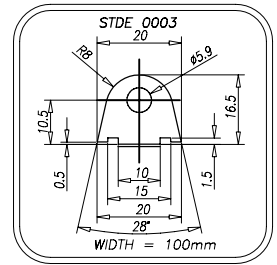
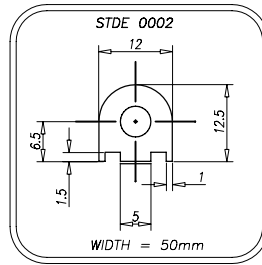
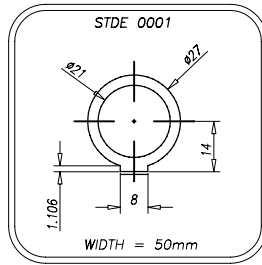
MOULDED CLEATS

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



CLEATS

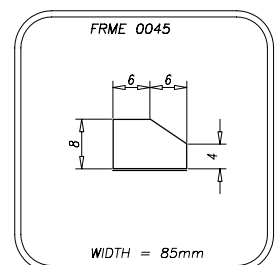
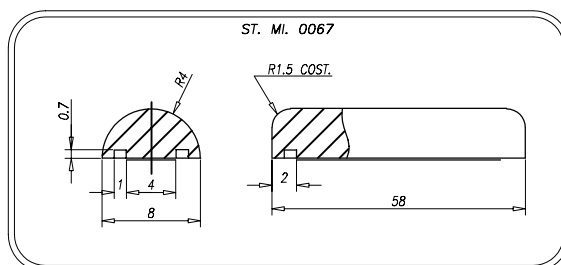
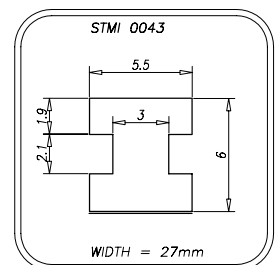
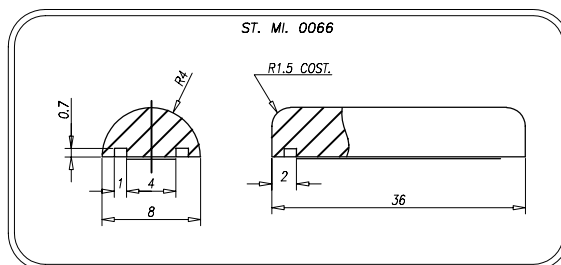
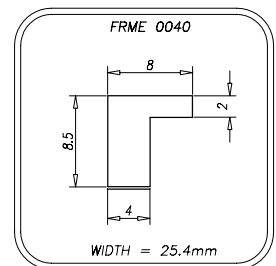
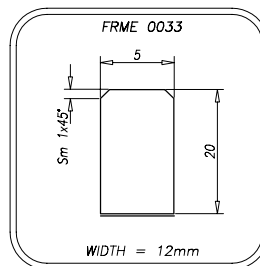
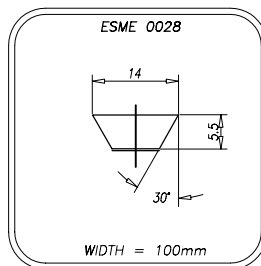
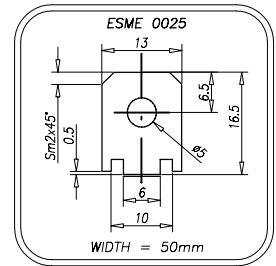
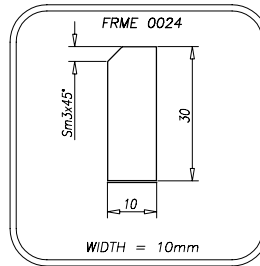
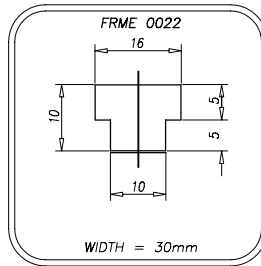
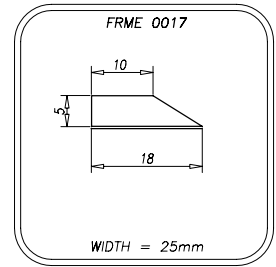
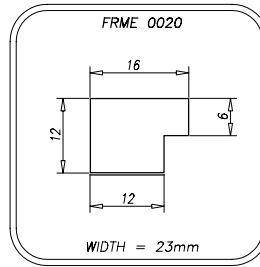
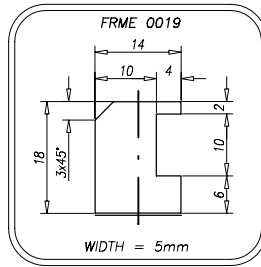
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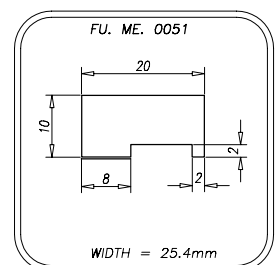
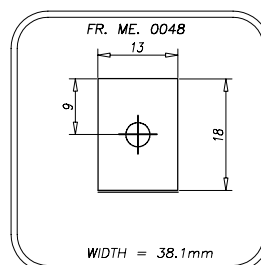
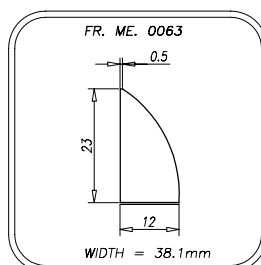
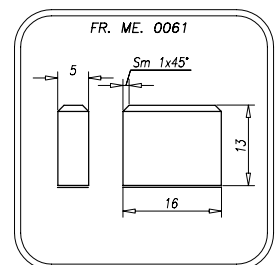
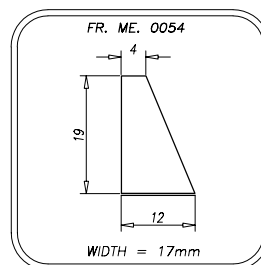
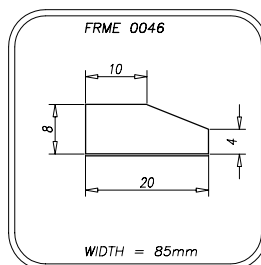
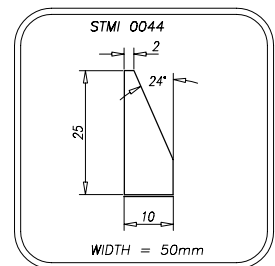
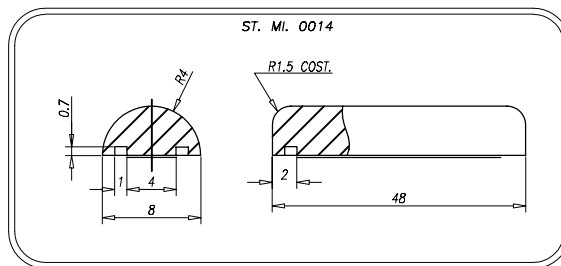
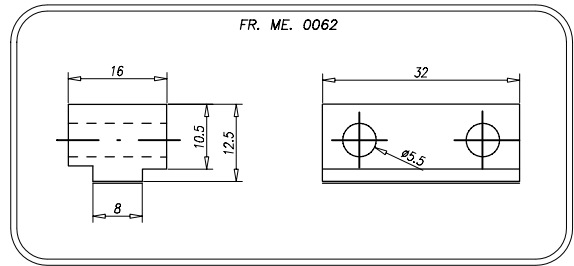
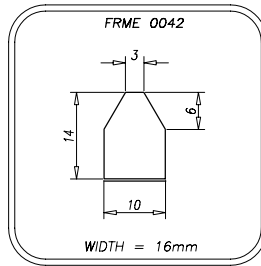
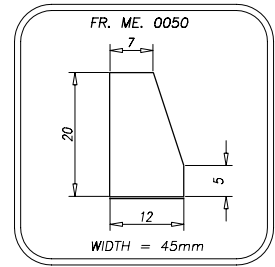
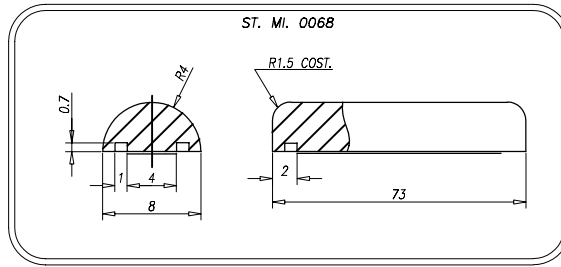
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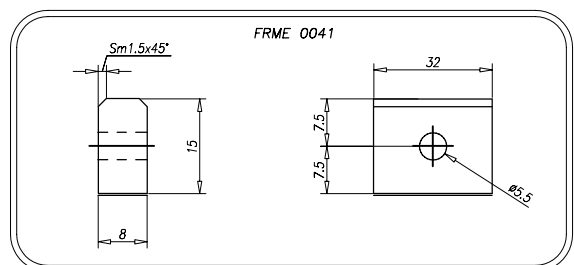
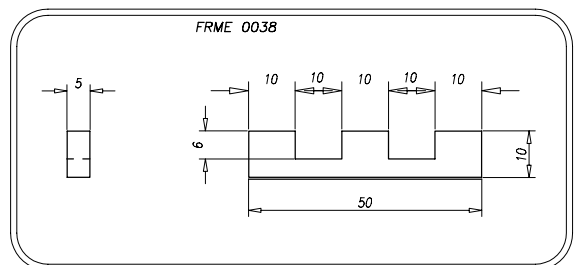
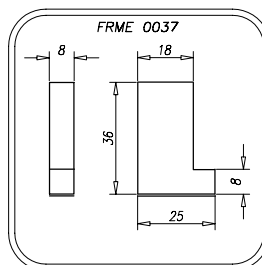
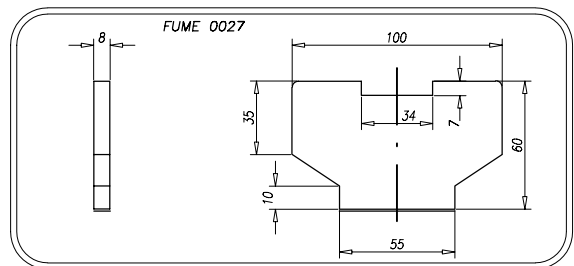
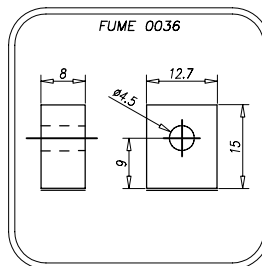
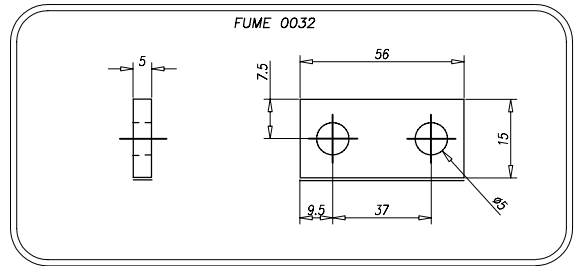
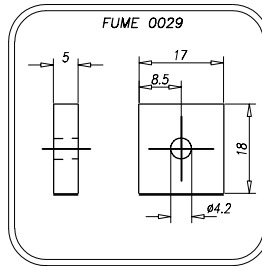
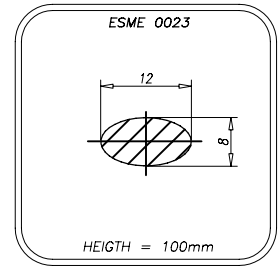
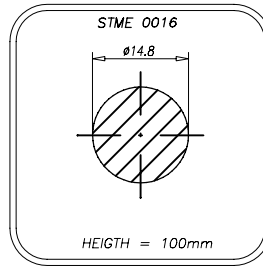
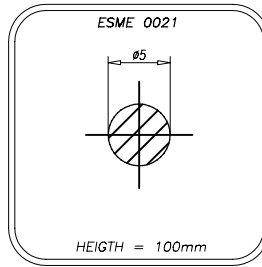
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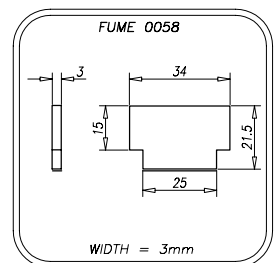
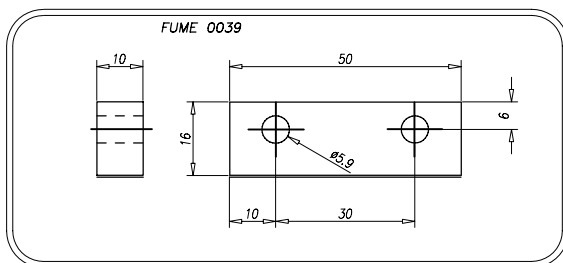
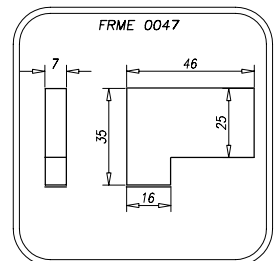
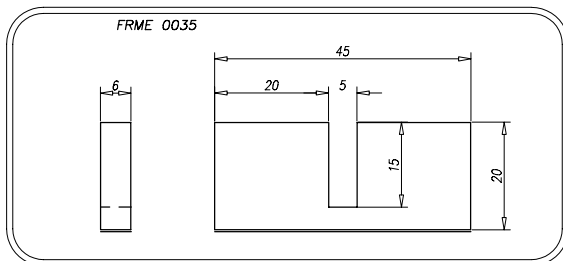
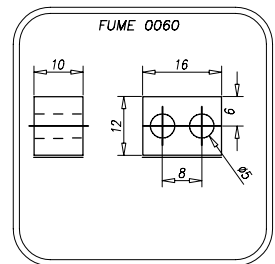
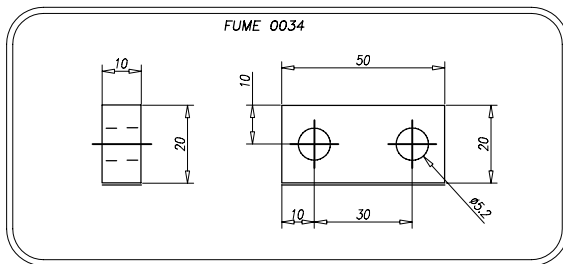
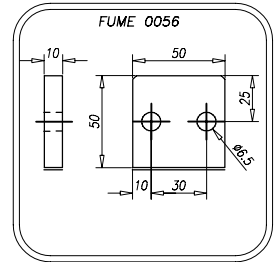
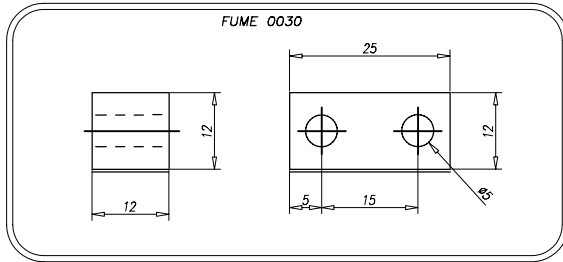
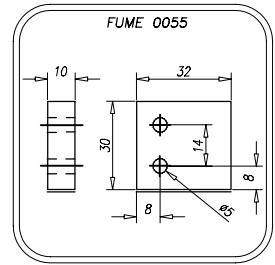
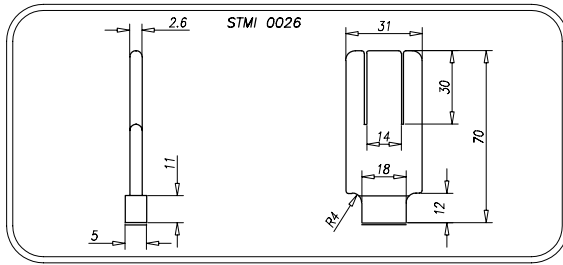
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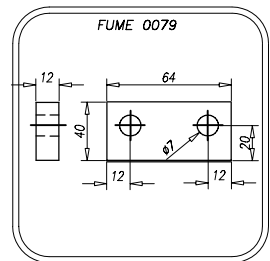
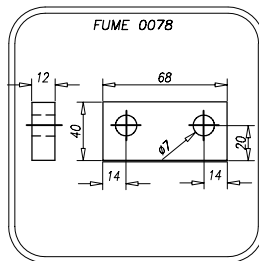
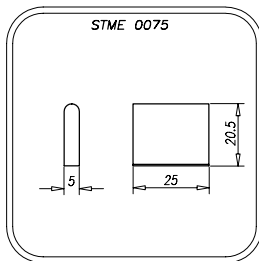
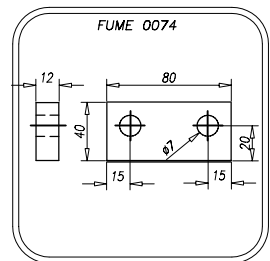
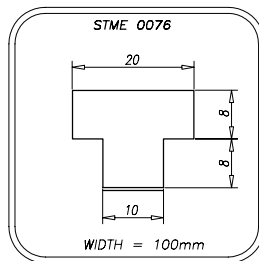
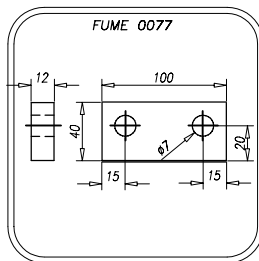
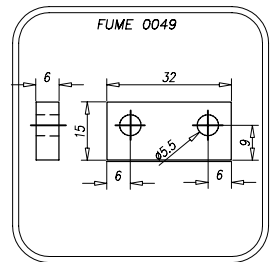
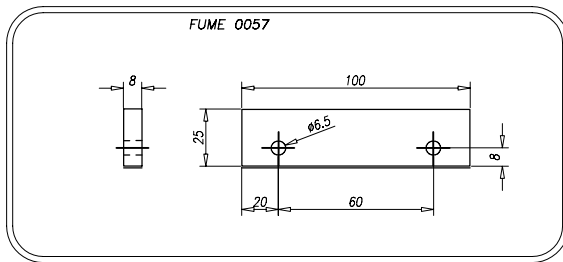
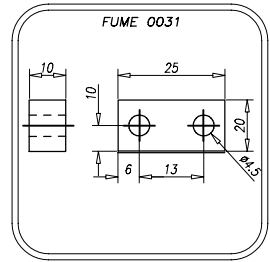
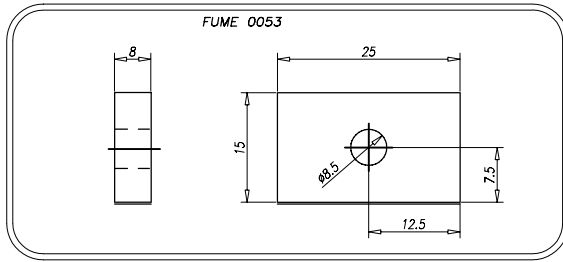
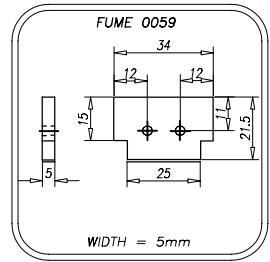
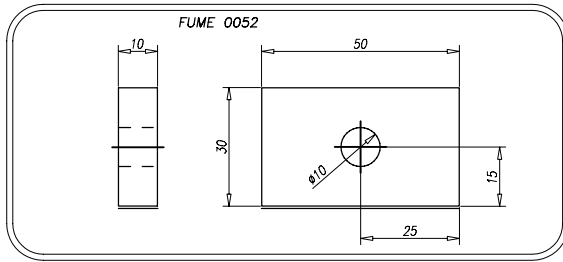
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CLEATS

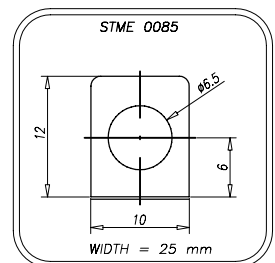
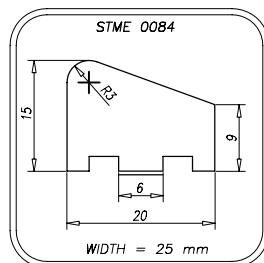
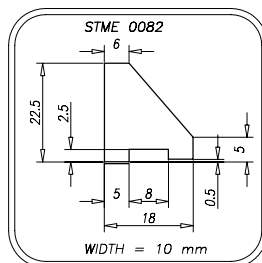
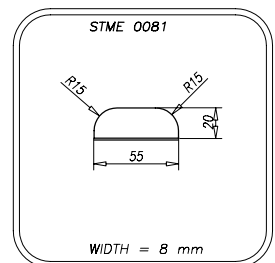
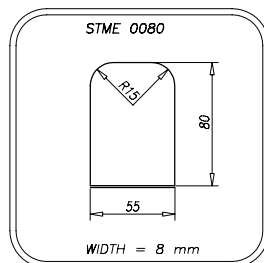
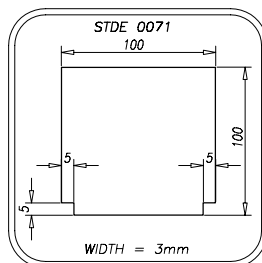
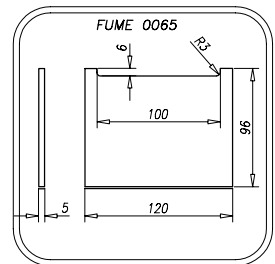
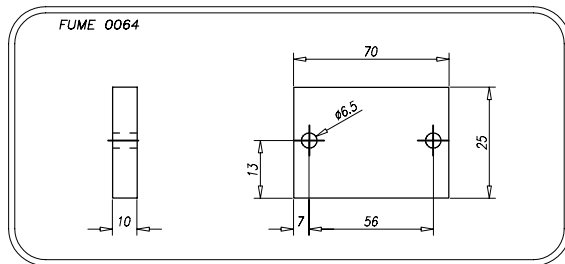
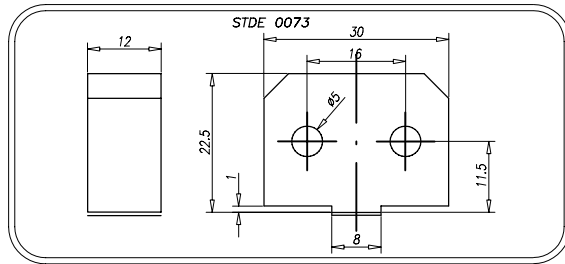
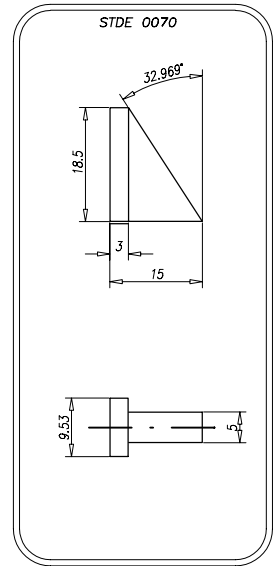
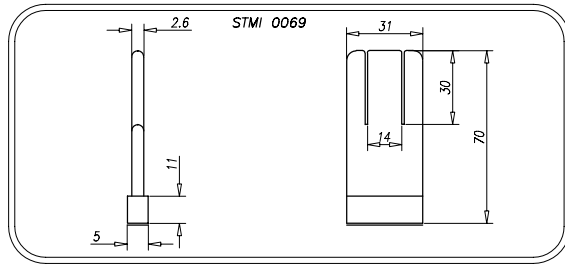
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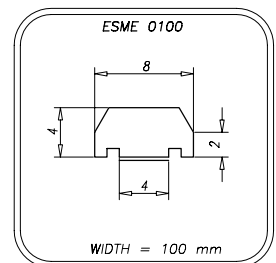
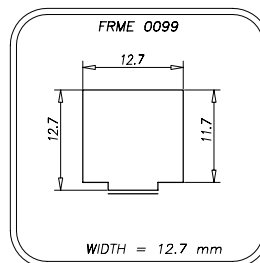
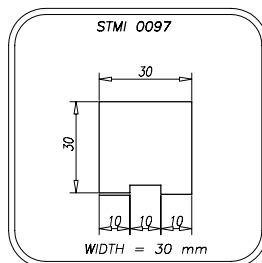
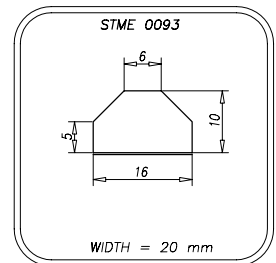
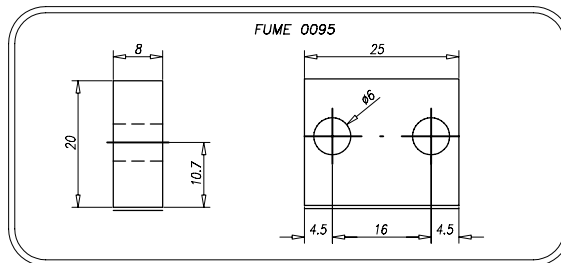
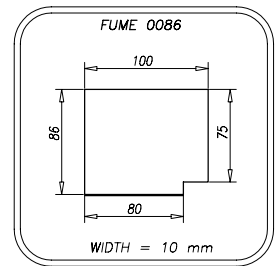
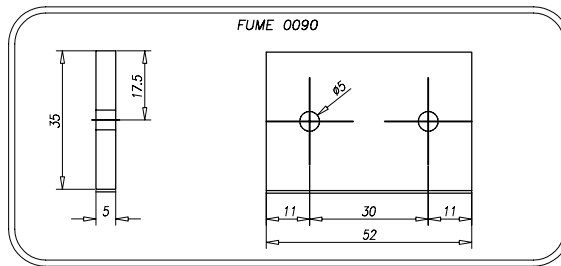
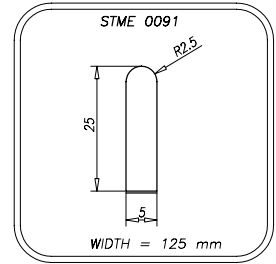
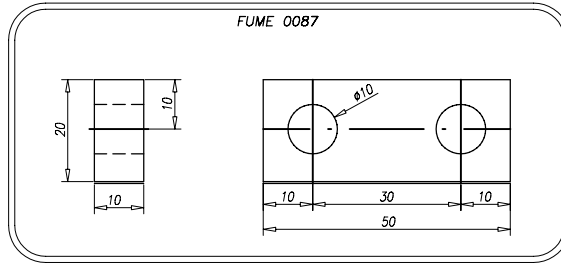
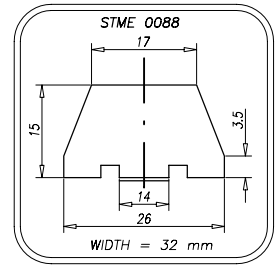
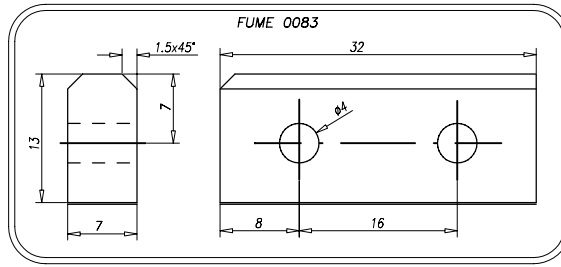
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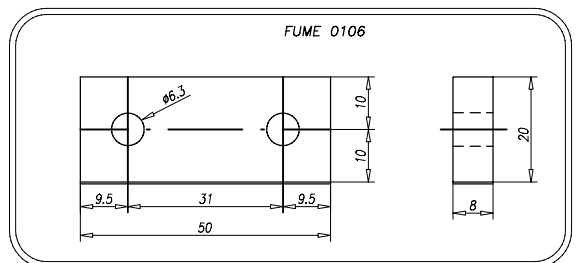
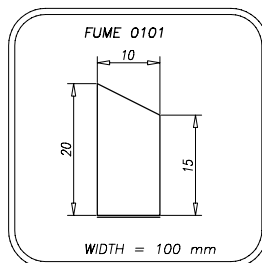
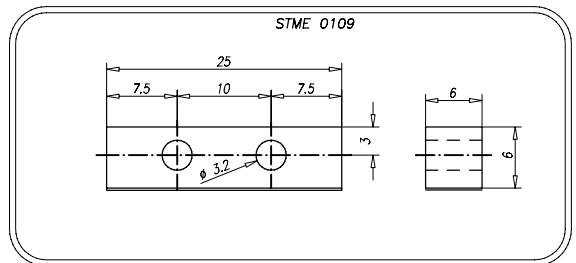
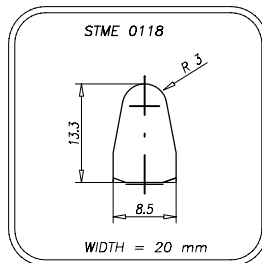
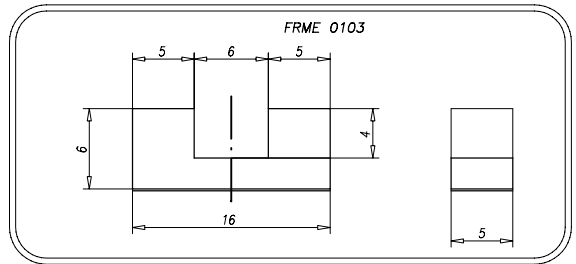
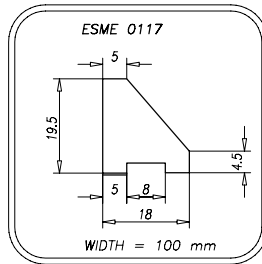
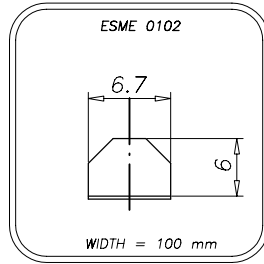
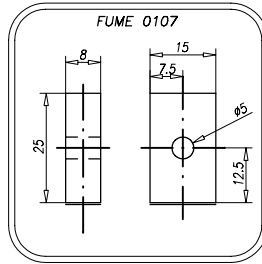
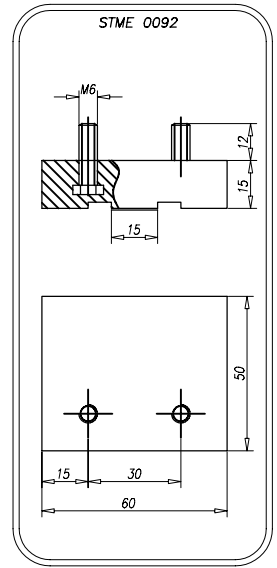
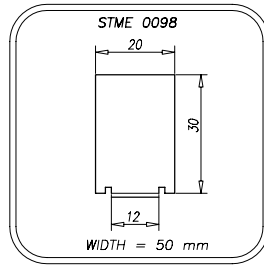
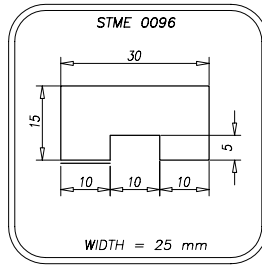
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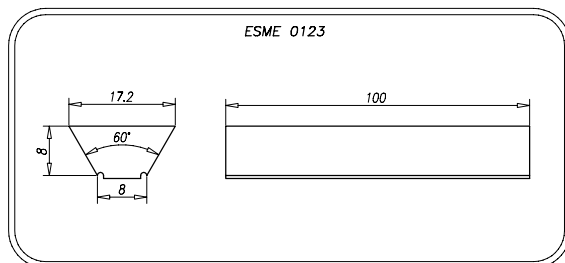
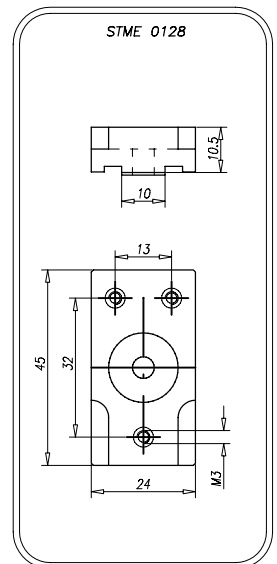
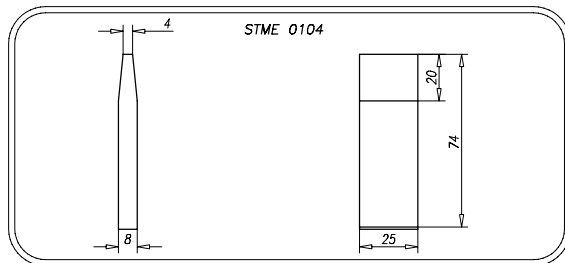
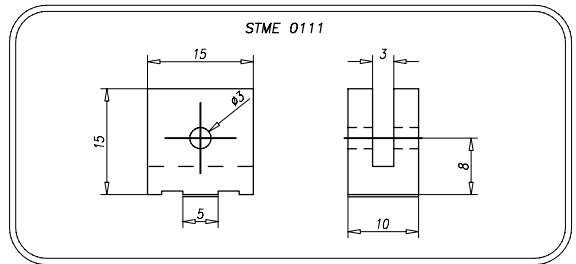
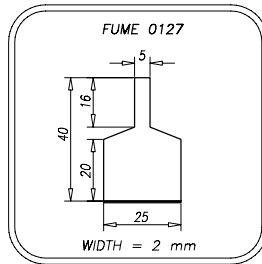
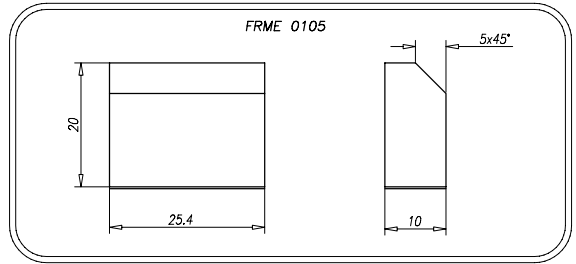
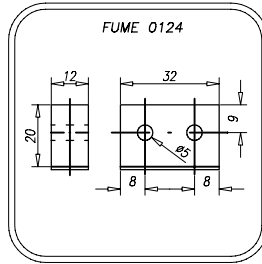
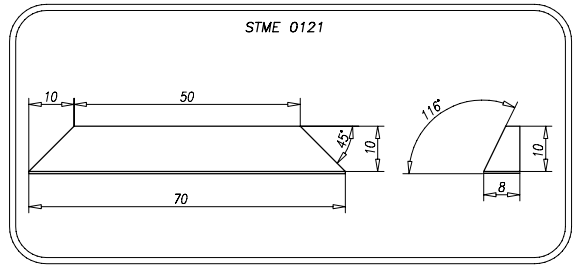
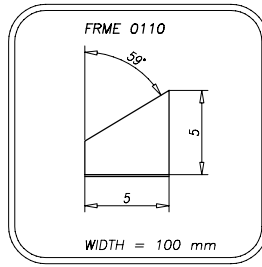
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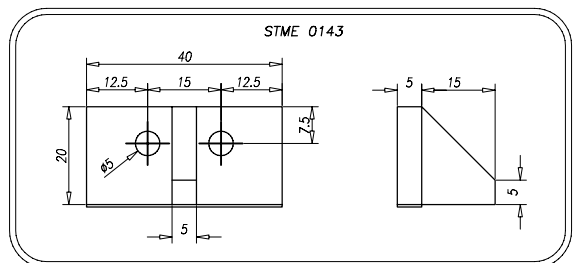
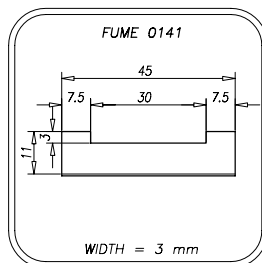
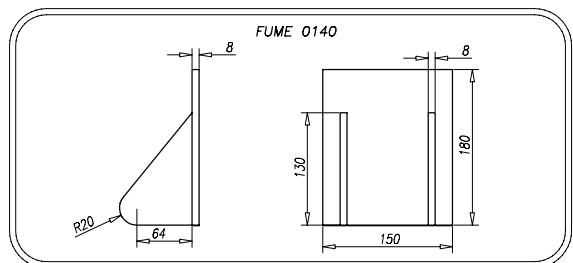
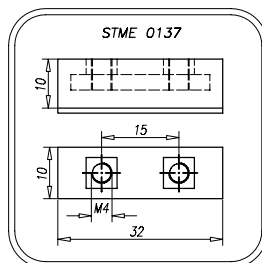
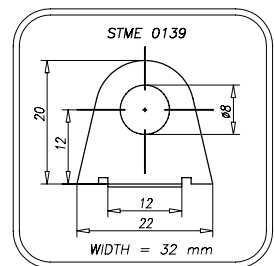
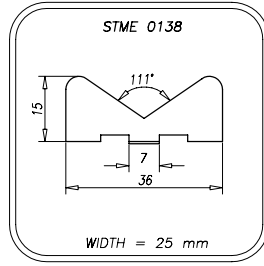
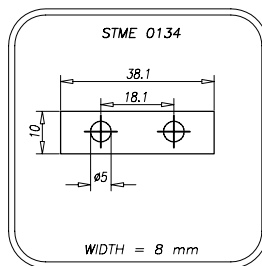
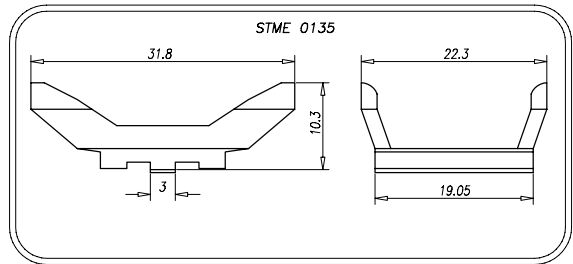
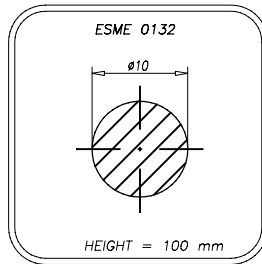
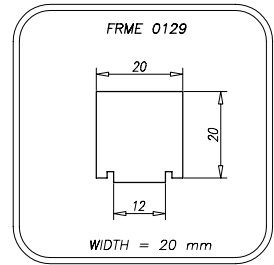
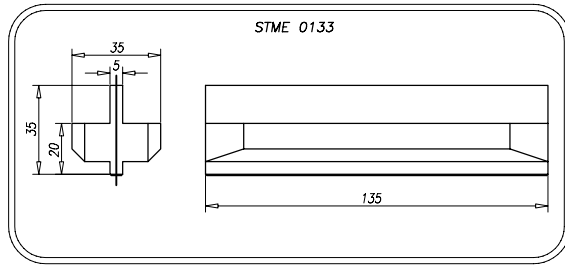
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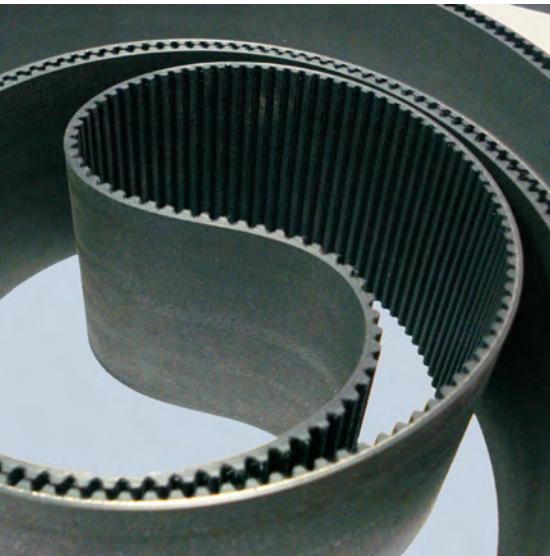




CLEATS

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ANTISTATIC POLYURETHANE

TIMING BELTS

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

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

where:

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

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

Megadyne antistatic belts are produced with black polyurethane as standard.

TYPICAL APPLICATIONS

- PC boards or other electronic assemblies industry
- Semiconductor processing
- Paper industry
- Power transmission applications in textile industry
- Chemical environment power transmission
- Clean room power transmissions

MEGAFLEX FEASIBILITY TABLE

| | XL | L | H | XH | T5 | T10 | T20 | AT5 | AT10 | AT15 | AT20 | MTD8 | RPP5 | RPP8 | RPP14 | ATG10 | P2 |
|-----------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Steel Cords | O | O | O | O | O | O | O | O | O | O | O | O | O | O | O | O | O |
| Kevlar Cords | M | X | M | X | M | M | M | M | M | X | M | M | X | M | X | M | X |
| High Performance Cords | X | X | X | X | M | M | M | M | M | X | M | X | X | X | X | X | X |
| High Flexibility Cords | M | M | M | M | M | M | M | M | M | X | M | M | M | M | X | M | X |
| High Performance Flexibility | X | X | X | X | M | M | M | M | M | X | X | X | X | X | X | X | X |
| Stainless Steel Cords | M | M | M | M | M | M | M | M | M | X | M | M | M | M | M | M | M |
| High Performance Stainless Steel | X | X | X | X | M | M | M | M | M | X | M | X | X | X | X | X | X |
| Fiberglass Cords | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Polyestere Cords | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Bifilar Twisting of Cords (S-Z) | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Nylon Fabric Teeth | M | M | M | M | M | M | M | M | M | M | M | M | O | O | O | M | M |
| Nylon Fabric Back | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Nylon Fabric Teeth Antistatic | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | X | M |
| FDA Compound | X | M | M | M | M | M | M | M | M | X | M | M | X | X | X | M | X |
| Avafc 2 / 4 mm 60° ShA Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Avafc 2 / 4 mm 70° ShA Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Avafc 2 / 4 mm 85° ShA Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Pu Yellow Coating 50° ShA | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| APL | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Fishbone Polyurethane Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Red Grip | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Durataq® | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Supergrip | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Minigrip | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Porol Black | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Linatex 42° ShA Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Tenax 40° / 45° ShA Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| White Alimentary Rubber Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Neoprene Rubber 70°ShA | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Gummy Correx Ambra Parablond Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| NBR Cover | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Linaplus FG | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Honey Comb | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Cleats | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Double Teeth only for Steel Cords <small>(If and Stainless Steel Cords whenever feasible, please check with our Staff)</small> | M | M | M | M | M | M | M | M | M | X | M | X | M | M | M | X | X |
| Min Length (mm) | 1504 | 1505 | 1511 | 1511 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1504 | - | - | - | 1500 | 1500 |
| Min Length with NFT (mm) | 1905 | 1905 | 1905 | 1911 | 1900 | 1900 | 1900 | 1900 | 1900 | 1905 | 1900 | 1904 | 1900 | 1904 | 1904 | 1900 | 1900 |
| Max Length (mm) | 22769 | 22765 | 22758 | 22758 | 22770 | 22770 | 22760 | 22770 | 22770 | 22770 | 22760 | 22768 | 22770 | 22768 | 22764 | 22770 | 22770 |
| Max Width for Belt (mm) | 152,4 | 152,4 | 152,4 | 152,4 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |

O: Ex stock | M: On request with Minimum Quantity | X: Not available



SPECIAL EXECUTION

FEASIBILITY

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

SPECIAL POLYURETHANE

On customer request and with minimum quantity, MEGAFLEX belt can be produced with different hardness:

- 90 ShA food quality polyurethane for contact with Food and medical products
- PU blue FCM certified for contact with food
- PU dark blue XMD (Metal and X-ray detectable)
- 92 ShA silicon free for painting system
- 95 ShA glass reinforced
- 98 ShA extra hard polyurethane
- 92 ShA higher resistance to temperature

COLOUR

On customer request and with a minimum quantity is possible to produce MEGAFLEX with several colours. Different colour doesn't influence belt technical properties so mechanical features are same as standard white belt.

Available colours are: • White • Black • Blue • Yellow • Transparent • Grey

BIFILAR CORDS

On request, all MEGAFLEX range can be manufactured with bifilar twisting cords.

SPECIAL THICKNESS AND BACK GRINDING

All MEGAFLEX belts back is grinded. Sometimes additional grinding may be required to achieve a precise belt thickness as an adjunction to drive's precision. When belt back grinding tolerance is required, the total thickness, including the tooth, must be specified. A grinding tolerance of +/-0,2 mm is achievable with a good level finish (i.e. the thickness will not vary greatly around the belt). On request, it is possible to produce MEGAFLEX with extrathickness. Most widths and lengths are available.



SPECIAL EXECUTION

FEASIBILITY

LONGITUDINAL REWORK

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

REWORK ON BELT TEETH

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

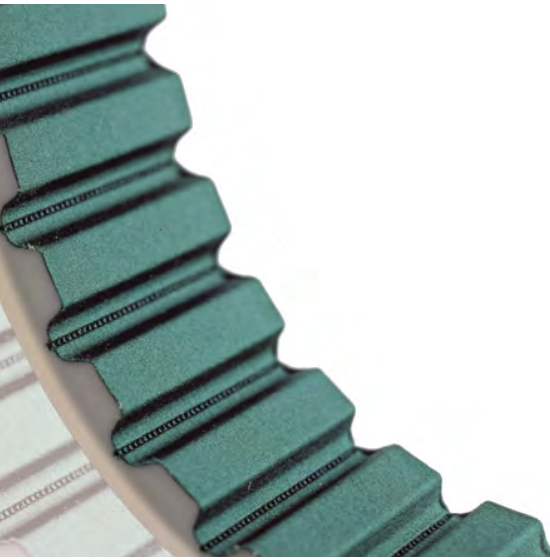
HOLES IN TIMING BELTS

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

SINGLE TOOTH REMOVAL

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

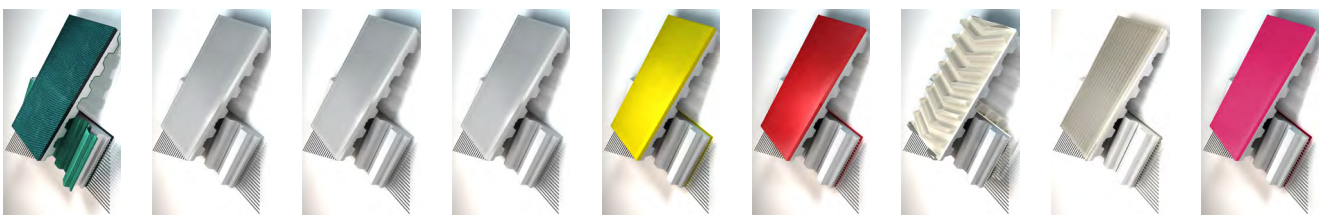
COVER PROPERTIES



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

Contact Megadyne team for custom solutions.

| COVER TYPE | | | | | | | | | |
|--------------------------------------------------|---------------------------------------------|--------------|--------------|--------------|-------------------------|----------------------|--------------|--------------|-----------------------------|
| | NFT/NFB NYLON FA- BRIC TEETH/ BACK | AVAFC 60 | AVAFC 70 | AVAFC 85 | PU YELLOW, GREY, RED | APL | PU FISHBONE | PU RIBBED | RED GRIP |
| Raw material | nylon | polyurethane | polyurethane | polyurethane | foamed polyurethane | polyurethane/ PVC | polyurethane | polyurethane | PU / synthetic rubber |
| Hardness (ShA) | – | 60 | 70 | 85 | 35-40 50 60-70 | 55 | 70 | 70 | 63 +/- 4 |
| Colour | green; black (antistatic) | transparent | transparent | transparent | yellow/grey/ red | red | transparent | transparent | red |
| Coating and belt cohesion method | extrusion lamination | extrusion | extrusion | extrusion | spraying | extrusion | extrusion | extrusion | extrusion |
| 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 | 1 to 8 |
| Tolerance on coating thickness | – | + /- 0,3 | +/- 0,3 | +/- 0,3 | +/- 0,3 | +/- 0,3 | +/- 0,5 | +/- 0,5 | +/- 0,3 |
| Working temperature range (°C) | -20 +80 | -20 +80 | -20 +80 | -20 +80 | -10 +60 | -20 +60 | -20 +80 | -20 +80 | - 20 +60 |
| Friction coefficient (1) | 0,25 | 0,65 | 0,65 | 0,60 | 0,40 | 0,70 | 0,60 | 0,60 | 0,70 |
| 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 | very good |
| Oil resistance | fair | good | fair | good | good | good | fair | fair | very 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 | x 30 |



(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.

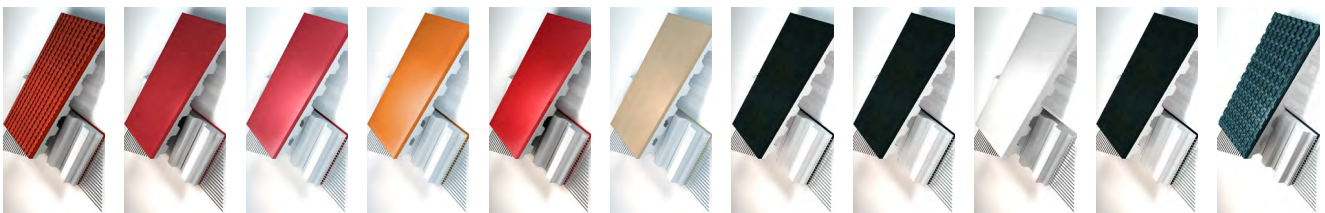
(2) Pd - Suggested diameter is bigger value between this calculated value and minimum pulley diameter on belt data page.

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

MEGAFLEX

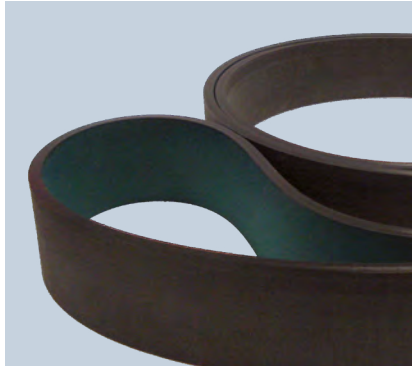
COVER PROPERTIES

| COVER TYPE | | | | | | | | | | |
|----------------|----------------------------|-----------------------|----------------|----------------|------------------------------|---------------------------|---------------------------|----------------|------------------------------|----------------------|
| HONEYCOMB | LINATEX™ | RED NATURAL RUBBER 40 | DURATAQ® | TENAX STANDARD | GUMMY CORREX AMBRA PARABLOND | BLACK NEOPRENE | NBR | LINAPLUS FG | POROL BLACK | SUPERGRIP PETROL |
| natural rubber | natural rubber | natural rubber | natural 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 | 46 |
| red | red | red | orange | red | beige | black | black/white | white | black | petrol green |
| lamination | lamination; vulcanization | vulcanization | vulcanization | vulcanization | vulcanization | lamination; vulcanization | lamination; vulcanization | lamination | lamination | extrusion 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 | 4,5 |
| +/- 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 | - 10 +60 |
| 0,60 | 0,90 | 0,50 | 1,10 | 0,70 | 0,60 | 0,60 | 0,70 0,60 | 0,75 | 1,20 | 0,90 |
| 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 | good |
| no | no | no | no | no | no | no | no | yes | no | no |
| x 30 | x 20 | x 20 | x 20 | x 30 | x 30 | x 30 | x 30 x 35 | x 25 | x 15 | 60 mm |



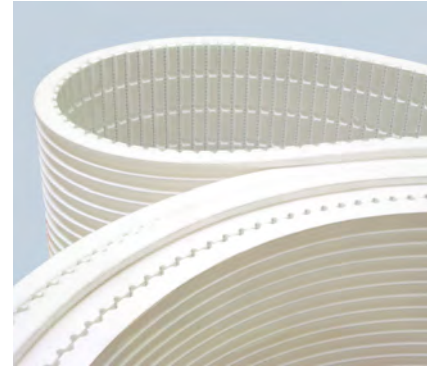
SPECIAL EXECUTION

PHOTOS



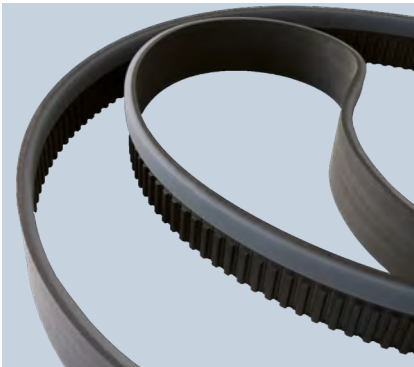
AUTOMOTIVE INDUSTRY

Transport Skids applications for car industry.



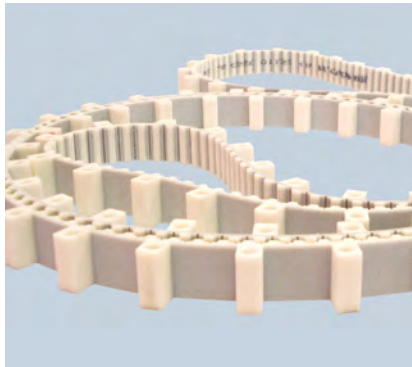
MARBLE INDUSTRY

Custom made belt with special back grinding for cutting marble blocks.



FITNESS INDUSTRY

Self tracking belt for treadmill.



TEXTILE INDUSTRY

High variety of cleats allow MEGAFLEX to work in several fields.



FOOD INDUSTRY

High variety of compounds makes MEGAFLEX belt suitable for different application.

MEGAFLEX

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

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

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

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