MEGAPOWER FC

| Food Contact | Timing Belts |

- **Standard Compound:** Thermoseal RUB-50A
- **Dark line (RAL 5000)**
- **Glossmeter reading:** EU Regulations 1935/2004/EU 10/2011 and EU 174/2012
- **Cono:** 2 bead stainless steel AISI 304
- **Working temperature:** -20°C~+60°C (−4°F~+140°F)
- **Backside cleats/profiles are possible with special tooling**

### Standard Belt Widths (mm)

- **Standard Belt Widths mm (in):**
  - 10 12 16 20 25 32 50 75

### Standard Pulley Widths (mm)

- **Standard Pulley Widths (mm):**
  - 19.1 (0.75") 25.4 (1.00") 38.1 (1.50") 50.8 (2.00") 76.2 (3.00")

### Belt Weight (gr/cm)

- **Belt Weight (gr/cm):**
  - 2.29 4.3 2.5 4.5 0.494 0.504 0.683 0.861 1.082 1.386 2.174 3.276

### Standard Thickness Tolerance

- **Standard thickness tolerance:**
  - +/− 0.30 mm (0.012”)
  - +/− 0.80 mm (0.031”)

### Standard Belt Width Tolerance

- **Standard belt width tolerance:**
  - +/− 0.50 mm

### All Pitches - Tooth shear resistance and Transmittable power is 25% less than standard Megapower belt.
**MEGALINEAR FC (Food Contact)** is manufactured with a FDA blue urethane elastomer. The urethane in Megalinear FC is approved according to European regulations EU 1935/2004, EU 10/2011 and EU 174/2015. Manufactured in T5 and T10 pitch with no gap between the teeth to avoid trapped particles that can promote contamination. Available with a variety of backing profiles for many different conveying and processing applications, these advanced elastomer synchronous belts have excellent resistance to oil, chemicals and humid environments and are certified for wet and dry food contact. Their use is particularly suited to a wide variety of applications in food processing and packaging. This homogenous extruded belt design assures no delamination of the cover from the base which offers significantly greater service life with the highest high level of hygienic integrity.

### Standard Surface Profile Options

<table>
<thead>
<tr>
<th>Surface</th>
<th>Total Thickness</th>
<th>Profile Height</th>
<th>Roll Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smooth</td>
<td>2.8 +/- 0.3 mm</td>
<td>0.9 mm</td>
<td>50 m</td>
</tr>
<tr>
<td>Longitudinal Ribbed</td>
<td>4.6 +/- 0.3 mm</td>
<td>0.9 mm</td>
<td>50 m</td>
</tr>
<tr>
<td>Transversal Ribbed</td>
<td>4.6 +/- 0.3 mm</td>
<td>1.25 mm</td>
<td>50 m</td>
</tr>
<tr>
<td>Noppen Oval</td>
<td>5.2 +/- 0.3 mm</td>
<td>2.1 mm</td>
<td>50 m</td>
</tr>
<tr>
<td>Roof</td>
<td>Not currently available</td>
<td>6.0 +/- 0.3 mm</td>
<td>1.7 mm</td>
</tr>
<tr>
<td>Spike Top</td>
<td>4.1 +/- 0.3 mm</td>
<td>1.3 mm</td>
<td>50 m</td>
</tr>
</tbody>
</table>

### Megalinear FC Belts with Cleats

For most product handling applications within food processing and packaging our standard Megalinear FC belts with homogenous structure surfaces will do the job; however, some applications such as those found in pick and place automation require a belt with special features like cleats for sorting, separation and actuation. Here our smooth FC, no gap belt in T5 and T10 pitch can be customized with cleats to meet your specific need.

- Standard and customized cleats, made with the same elastomer as the base belt can be welded onto the belt.
- In most cases a simple cleat shape will do the job, however, more complex shapes can be molded.

### Made to Order Megalinear-FC

Megadyne standard cover structures are available to address a large number of food conveying and processing applications. However, our flexible manufacturing process and technical engineering team is available to create a unique, embossed cover solution for your application. With a modest investment in tooling, Megadyne can review your request for a special convey side structure.

In addition, alternative urethane durometers, colors, belt pitches and cord density options are possible.

### Made to Order Information for Megalinear FC Belts:

<table>
<thead>
<tr>
<th>Information</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application description</td>
<td>Application description of the process to be carried out</td>
</tr>
<tr>
<td>If wash down is part of the process, what chemicals are used?</td>
<td>Chemicals used in wash down processes</td>
</tr>
<tr>
<td>Desired pitch</td>
<td>Desired pitch of the belt</td>
</tr>
<tr>
<td>Desired tooth shape</td>
<td>Desired tooth shape for the belt</td>
</tr>
<tr>
<td>Desired durometer (transport side)</td>
<td>Desired durometer for the transport side of the belt</td>
</tr>
<tr>
<td>Max load to be conveyed</td>
<td>Maximum load to be conveyed by the belt</td>
</tr>
<tr>
<td>Desired color</td>
<td>Desired color of the belt</td>
</tr>
<tr>
<td>Annual usage</td>
<td>Annual usage of the belt</td>
</tr>
<tr>
<td>Application temperature</td>
<td>Application temperature of the belt</td>
</tr>
<tr>
<td>If cleats are needed</td>
<td>YES/NO (Indicate whether cleats are needed)</td>
</tr>
<tr>
<td>Number of cleats needed</td>
<td>Number of cleats needed for the belt</td>
</tr>
<tr>
<td>Spacing of Cleats</td>
<td>Spacing of cleats between the cleats</td>
</tr>
</tbody>
</table>

### Application Example

For an application involving the transport of food products, Megalyne standard Megalinear FC belts with homogenous surface profiles will be suitable. However, for applications requiring additional features like sorting or separation, custom Megalinear FC belts with cleats can be manufactured. The cleats can be customized to meet the specific requirements of the application.

### Required Information for Made to Order Megalinear FC Belts:

1. Application description
2. If wash down is part of the process, what chemicals are used?
3. Desired pitch
4. Desired tooth shape
5. Desired durometer (transport side)
6. Max load to be conveyed
7. Desired color
8. Annual usage
9. Application temperature
10. If cleats are needed
11. Number of cleats needed
12. Spacing of Cleats
13. Cleat design - please sketch with dimensions
14. A sketch of desired surface impression with dimensions
### MEGALINEAR FC

MEGALINEAR FC (Food Contact) is manufactured with a FDA blue urethane elastomer. The urethane in Megalinear FC is approved according to European regulations EU 1935/2004, EU 10/2011 and EU 174/2015. Manufacturing in T5 and T10 pitch with no gap between the teeth to avoid trapped particles that can promote contamination. Available with a variety of backing profiles for many different conveying and processing applications, these advanced elastomer synchronous belts have excellent resistance to oils, chemicals and humid environments and are certified for wet and dry food contact. Their use is particularly suited to a wide variety of applications in food processing and packaging. This homogeneous extruded belt design assures no delamination of the cover from the base which offers significantly greater service life, with the highest high level of hygienic integrity.

#### STANDARD SURFACE PROFILE OPTIONS

<table>
<thead>
<tr>
<th>Surface</th>
<th>T5</th>
<th>T10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smooth</td>
<td>2.8 +/- 0.3 mm</td>
<td>2.8 +/- 0.3 mm</td>
</tr>
<tr>
<td>Longitudinal Ribbed</td>
<td>4.0 +/- 0.3 mm</td>
<td>4.0 +/- 0.3 mm</td>
</tr>
<tr>
<td>Transversal Ribbed</td>
<td>4.0 +/- 0.3 mm</td>
<td>4.0 +/- 0.3 mm</td>
</tr>
<tr>
<td>Noppen Oval</td>
<td>5.2 +/- 0.3 mm</td>
<td>7.7 +/- 0.3 mm</td>
</tr>
<tr>
<td>Roof</td>
<td>6.6 +/- 0.3 mm</td>
<td>6.6 +/- 0.3 mm</td>
</tr>
<tr>
<td>Spike Top</td>
<td>4.1 +/- 0.3 mm</td>
<td>6.1 +/- 0.3 mm</td>
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#### MEGALINEAR FC BELTS WITH CLEATS

For most product handling applications within food processing and packaging, our standard Megalinear FC belts with homogeneous structure surfaces will do the job, however some applications such as those found in pick and place automation require a belt with special features like cleats for sorting, separation and actuation. Here our smooth FC, no gap belt in T5 and T10 pitch can be customized with cleats to meet your specific need.

- **Standard and customized cleats**, made with the same elastomer as the base belt can be welded onto the belt.
- In most cases a simple cleat shape will do the job, however, more complex shapes can be molded.

#### REQUIRED INFORMATION FOR MADE TO ORDER MEGALINEAR FC BELTS:

- Application description
- If wash down is part of the process, what chemicals are used?
- Desired pitch
- Desired tooth shape
- Desired backer (transport side)
- Max load to be conveyed
- Desired color
- Annual usage
- Application temperature
- If cleats are needed:
  - Number of cleats needed
  - Spacing of cleats
- A sketch of the desired surface impression with dimensions

### MADE TO ORDER MEGALINEAR-FC

Megadyne standard cover structures are available to address a large number of food conveying and processing applications. However, our flexible manufacturing process and technical engineering team is available to create a unique, embossed cover solution for your application. With a modest investment in tooling, Megadyne can review your request for a special custom side structure.

In addition, alternative urethane durometers, colors, belt pitches, tooth shapes and cord density options are possible.
MEGALINEAR FC

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**T5 Standard Width (mm)**

- Smooth: 2.8 +/- 0.3 mm, 0 mm, 50 m, 4.8 +/- 0.3 mm, 0 mm, 50 m
- Longitudinal Ribbed: 4.0 +/- 0.3 mm, 1.25 mm, 50 m, 6.05 +/- 0.3 mm, 1.25 mm, 50 m
- Transversal Ribbed: 4.0 +/- 0.3 mm, 1.25 mm, 50 m, 6.05 +/- 0.3 mm, 1.25 mm, 50 m
- Noppen Oval: 5.2 +/- 0.3 mm, 2.1 mm, 50 m, 7.7 +/- 0.3 mm, 2.1 mm, 50 m
- Roof: Not currently available
- Spike Top: 4.1 +/- 0.3 mm, 1.3 mm, 50 m, 6.1 +/- 0.3 mm, 1.3 mm, 50 m

**T10 Standard Width (mm)**

- Smooth: 2.8 +/- 0.3 mm, 0 mm, 50 m, 4.8 +/- 0.3 mm, 0 mm, 50 m
- Longitudinal Ribbed: 4.0 +/- 0.3 mm, 1.25 mm, 50 m, 6.05 +/- 0.3 mm, 1.25 mm, 50 m
- Transversal Ribbed: 4.0 +/- 0.3 mm, 1.25 mm, 50 m, 6.05 +/- 0.3 mm, 1.25 mm, 50 m
- Noppen Oval: 5.2 +/- 0.3 mm, 2.1 mm, 50 m, 7.7 +/- 0.3 mm, 2.1 mm, 50 m
- Roof: Not currently available
- Spike Top: 4.1 +/- 0.3 mm, 1.3 mm, 50 m, 6.1 +/- 0.3 mm, 1.3 mm, 50 m

- Excellent resistance to oils, humidity, wet environments and belt wash-down procedures
- Homogenous construction eliminates chance of backside structure delamination
- No-Gap construction minimizes contamination possibility
- Standard compound: dark blue Polyurethane thermoplastic 85 ShA (70 ShA, 90 ShA available upon request. Consult Megadyne.)
- Standard cords: S and Z twist Kevlar
- Working temperature -25°C/+80°C (-13°F/+186°F)

**MEGALINEAR FC BELTS WITH CLEATS**

For most product handling applications within food processing and packaging our standard MEGALINEAR FC belts with homogenous structure surfaces will do the job, however some applications such as those found in pick and place automation require a belt with special features like cleats for sorting, separation and actuation. Here our smooth FC, no gap belt in T5 and T10 pitch can be customized with cleats to meet your specific need.

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- Standard cords: S and Z twist Kevlar
- Working temperature -25°C/+80°C (-13°F/+186°F)

**REQUIRED INFORMATION FOR MADE TO ORDER MEGALINEAR FC BELTS:**

- Application description
- If wash down is part of the process, what chemicals are used?
- Desired pitch
- Desired tooth shape
- Desired barometer (transport side)
- Max load to be conveyed
- Desired color
- Annual usage
- Application temperature
- If cleats are needed:
  - Number of cleats needed
  - Spacing of Cleats
  - Cleat design - please sketch with dimensions
  - A sketch of desired surface impression with dimensions

**MADE TO ORDER MEGALINEAR-FC**

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**Standard Surfaces**

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</tr>
</tbody>
</table>
MEGAPower FC

Material
- Nomex
- Polyimide

Pitch
- T10
- AT10
- T5
- T5 DD
- T10 DD

Tolerance
- +/- 0.30 mm (0.012”)
- +/- 0.15 mm

Standard Thickness Tolerance:
- +/- 0.30 mm (0.012”)
- +/- 0.80 mm (0.031”)

Standard Belt Width Tolerance:
- +/- 0.50 mm
- +/- 0.30 mm

Working Temperature
- -25°C/+80°C (-13°F to +176°F)

Elastomer
- Thermoplastic Polyurethane
- Thermoset Polyurethane

Underlay
- Plastic
- Metal

Standard Compound:
- PU88 ShA
- PU86 ShA
- PU96 ShA
- PU98 ShA
- PU50 ShA
- PU52 ShA

Standard Belt Weight:
- 0.116 g/cm
- 0.578 g/cm
- 1.059 g/cm
- 1.905 g/cm
- 3.005 g/cm
- 4.344 g/cm

Belt Weight (gr/cm)

Standard Belt Widths (mm)
- 10 12 16 20 25 32 50 75

Standard Pulley Widths (mm)
- 19.1 (0.75”)
- 25.4 (1.00”)
- 38.1 (1.50”)
- 50.8 (2.00”)
- 76.2 (3.00”)

• Standard Compound: Thermosa P86A dark blue (RAL 5002)

• Backside cleats/profiles are possible with special tooling

• Working temperature -25°C/+80°C (-13°F to +176°F)


• Standard Compound: Thermoset PU88 ShA
- Dark blue (RAL 5002)

• Standard Compound: PU50 ShA

• Standard Compound: PU52 ShA

• Standard Compound: PU96 ShA

• Standard Compound: PU98 ShA

• Standard Compound: PU86 ShA

• Standard Compound: PU88 ShA

• Standard Compound: PU100 ShA

• Standard Compound: PU120 ShA

• Standard Compound: PU150 ShA

• Standard Compound: PU180 ShA

• Standard Compound: PU250 ShA

• Standard Compound: PU300 ShA

• Standard Compound: PU350 ShA

• Standard Compound: PU400 ShA

• Standard Compound: PU450 ShA

• Standard Compound: PU500 ShA

• Standard Compound: PU550 ShA

• Standard Compound: PU600 ShA

• Standard Compound: PU650 ShA

• Standard Compound: PU700 ShA

• Standard Compound: PU750 ShA

• Standard Compound: PU800 ShA

• Standard Compound: PU850 ShA

• Standard Compound: PU900 ShA

• Standard Compound: PU950 ShA

• Standard Compound: PU1000 ShA

• Standard Compound: PU1100 ShA

• Standard Compound: PU1200 ShA

• Standard Compound: PU1300 ShA

• Standard Compound: PU1400 ShA

• Standard Compound: PU1500 ShA

• Standard Compound: PU1600 ShA

• Standard Compound: PU1700 ShA

• Standard Compound: PU1800 ShA

• Standard Compound: PU1900 ShA

• Standard Compound: PU2000 ShA

• Standard Compound: PU2100 ShA

• Standard Compound: PU2200 ShA

• Standard Compound: PU2300 ShA

• Standard Compound: PU2400 ShA

• Standard Compound: PU2500 ShA

• Standard Compound: PU2600 ShA

• Standard Compound: PU2700 ShA

• Standard Compound: PU2800 ShA

• Standard Compound: PU2900 ShA

• Standard Compound: PU3000 ShA

• Standard Compound: PU3100 ShA

• Standard Compound: PU3200 ShA

• Standard Compound: PU3300 ShA

• Standard Compound: PU3400 ShA

• Standard Compound: PU3500 ShA

• Standard Compound: PU3600 ShA

• Standard Compound: PU3700 ShA

• Standard Compound: PU3800 ShA

• Standard Compound: PU3900 ShA

• Standard Compound: PU4000 ShA

• Standard Compound: PU4100 ShA

• Standard Compound: PU4200 ShA

• Standard Compound: PU4300 ShA

• Standard Compound: PU4400 ShA

• Standard Compound: PU4500 ShA

• Standard Compound: PU4600 ShA

• Standard Compound: PU4700 ShA

• Standard Compound: PU4800 ShA

• Standard Compound: PU4900 ShA

• Standard Compound: PU5000 ShA

• Standard Compound: PU5100 ShA

• Standard Compound: PU5200 ShA

• Standard Compound: PU5300 ShA

• Standard Compound: PU5400 ShA

• Standard Compound: PU5500 ShA

• Standard Compound: PU5600 ShA

• Standard Compound: PU5700 ShA

• Standard Compound: PU5800 ShA

• Standard Compound: PU5900 ShA

• Standard Compound: PU6000 ShA

• Standard Compound: PU6100 ShA

• Standard Compound: PU6200 ShA

• Standard Compound: PU6300 ShA

• Standard Compound: PU6400 ShA

• Standard Compound: PU6500 ShA

• Standard Compound: PU6600 ShA

• Standard Compound: PU6700 ShA

• Standard Compound: PU6800 ShA

• Standard Compound: PU6900 ShA

• Standard Compound: PU7000 ShA

• Standard Compound: PU7100 ShA

• Standard Compound: PU7200 ShA

• Standard Compound: PU7300 ShA

• Standard Compound: PU7400 ShA

• Standard Compound: PU7500 ShA

• Standard Compound: PU7600 ShA

• Standard Compound: PU7700 ShA

• Standard Compound: PU7800 ShA

• Standard Compound: PU7900 ShA

• Standard Compound: PU8000 ShA

• Standard Compound: PU8100 ShA

• Standard Compound: PU8200 ShA

• Standard Compound: PU8300 ShA

• Standard Compound: PU8400 ShA

• Standard Compound: PU8500 ShA

• Standard Compound: PU8600 ShA

• Standard Compound: PU8700 ShA

• Standard Compound: PU8800 ShA

• Standard Compound: PU8900 ShA

• Standard Compound: PU9000 ShA

• Standard Compound: PU9100 ShA

• Standard Compound: PU9200 ShA

• Standard Compound: PU9300 ShA

• Standard Compound: PU9400 ShA

• Standard Compound: PU9500 ShA

• Standard Compound: PU9600 ShA

• Standard Compound: PU9700 ShA

• Standard Compound: PU9800 ShA

• Standard Compound: PU9900 ShA

• Standard Compound: PU10000 ShA

• Standard Compound: PU10100 ShA

• Standard Compound: PU10200 ShA

• Standard Compound: PU10300 ShA

• Standard Compound: PU10400 ShA

• Standard Compound: PU10500 ShA

• Standard Compound: PU10600 ShA

• Standard Compound: PU10700 ShA

• Standard Compound: PU10800 ShA

• Standard Compound: PU10900 ShA

• Standard Compound: PU11000 ShA

• Standard Compound: PU11100 ShA

• Standard Compound: PU11200 ShA

• Standard Compound: PU11300 ShA

• Standard Compound: PU11400 ShA

• Standard Compound: PU11500 ShA

• Standard Compound: PU11600 ShA

• Standard Compound: PU11700 ShA

• Standard Compound: PU11800 ShA

• Standard Compound: PU11900 ShA

• Standard Compound: PU12000 ShA

• Standard Compound: PU12100 ShA

• Standard Compound: PU12200 ShA

• Standard Compound: PU12300 ShA

• Standard Compound: PU12400 ShA

• Standard Compound: PU12500 ShA

• Standard Compound: PU12600 ShA

• Standard Compound: PU12700 ShA

• Standard Compound: PU12800 ShA

• Standard Compound: PU12900 ShA

• Standard Compound: PU13000 ShA

• Standard Compound: PU13100 ShA

• Standard Compound: PU13200 ShA

• Standard Compound: PU13300 ShA

• Standard Compound: PU13400 ShA

• Standard Compound: PU13500 ShA

• Standard Compound: PU13600 ShA

• Standard Compound: PU13700 ShA

• Standard Compound: PU13800 ShA

• Standard Compound: PU13900 ShA

• Standard Compound: PU14000 ShA

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• Standard Compound: PU14200 ShA

• Standard Compound: PU14300 ShA

• Standard Compound: PU14400 ShA

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• Standard Compound: PU15400 ShA

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• Standard Compound: PU15700 ShA

• Standard Compound: PU15800 ShA

• Standard Compound: PU15900 ShA

• Standard Compound: PU16000 ShA

• Standard Compound: PU16100 ShA

• Standard Compound: PU16200 ShA

• Standard Compound: PU16300 ShA
**MEGAPOWER FC**

MEGAPOWER FC (Food Contact) is designed for power transmission and certain synchronous conveying applications within the food processing and packaging industry where the urethane chemistry is beneficial for oily environments and where applications include driving stainless steel components and a food contact compliant blue urethane. MEGAPOWER FC is ideal for both wet and dry applications due to good chemical and corrosion resistance in humid and wet environments. MEGAPOWER FC handles your high acceleration, multi stop/start synchronous food product handling drives with ease.

- **Standard Component:** Thermoplastic RUB-5A dark toll (RAL 5000)
- **Classroom meets EU Regulations 1935/2004/EU 10/2011 and EU 174/2015
- **Condo:** 2 bolt stainless steel AISI 304
- **Working temperature:** -25°C/+80°C (-13°F to +176°F)
- **Cords:** Z twist stainless steel AISI 304
- **Color:** dark blue (RAL 5002)

### Standard Pulley Widths (mm)

<table>
<thead>
<tr>
<th>Width</th>
<th>AT10</th>
<th>T5</th>
<th>T5 DD</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>19.1 (0.75”)</td>
<td>25.4 (1.00”)</td>
<td>29.7 (1.17”)</td>
</tr>
<tr>
<td>12</td>
<td>25.4 (1.00”)</td>
<td>38.1 (1.50”)</td>
<td>46 (1.80”)</td>
</tr>
<tr>
<td>16</td>
<td>50.8 (2.00”)</td>
<td>76.2 (3.00”)</td>
<td>69 (2.70”)</td>
</tr>
</tbody>
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### Standard Belt Widths (mm)

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### Standard Belt Weight (gr/cm)

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<tr>
<th>Width</th>
<th>AT10</th>
<th>T5</th>
<th>T5 DD</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>0.745</td>
<td>1.059</td>
<td>1.594</td>
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<td>12</td>
<td>1.2</td>
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<tr>
<td>16</td>
<td>2.5</td>
<td>4.5</td>
<td>6.873</td>
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<tr>
<td>20</td>
<td>3.5</td>
<td>7.0</td>
<td>10.86</td>
</tr>
<tr>
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<td>4.5</td>
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<td>12.0</td>
<td>21.3</td>
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<tr>
<td>50</td>
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<tr>
<td>75</td>
<td>19.0</td>
<td>38.0</td>
<td>67.0</td>
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</table>

### Standard Tolerances

- **Standard Belt Width Tolerance:** +/- 0.30 mm
- **Standard Thickness Tolerance:** +/- 0.30 mm
- **Standard Pulley Width Tolerance:** +/- 0.80 mm

### Tables

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Tooth shear resistance and Transmittable power is 25 % less than standard Megapower belt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT10</td>
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<tr>
<td>T5</td>
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<tr>
<td>T5 DD</td>
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<tr>
<td>T10</td>
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<td>T10 DD</td>
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</table>

All Pitches - Tooth shear resistance and Transmittable power is 25% less than standard Megapower belt.