

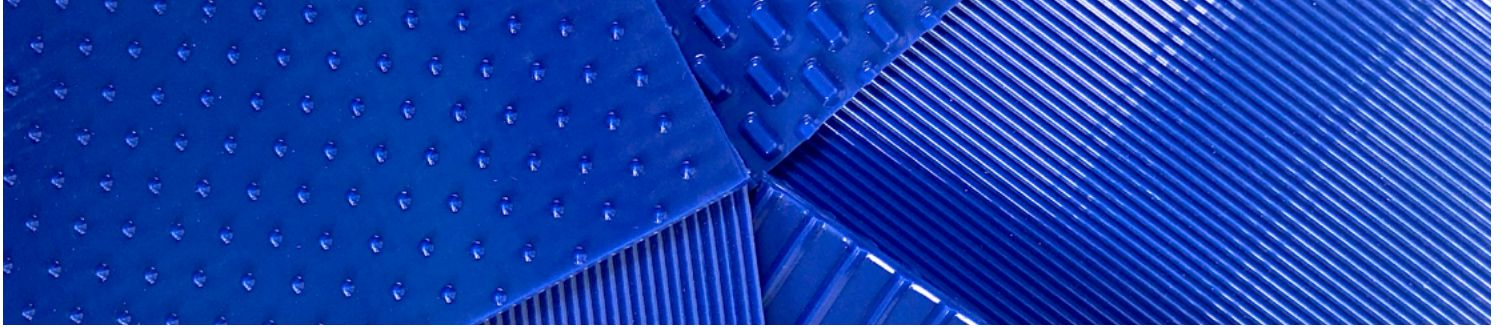
# **FOOD CONTACT**

Timing Belts



**MEGADYNE**

# 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. 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.

## T5

Standard Width (mm)	25	32	50	75	100	150	200
Width tolerance (mm) +/-	0.25	0.25	0.5	0.5	0.75	0.75	0.75

## T10

Standard Width (mm)	25	32	50	75	100	150	200
Width tolerance (mm) +/-	0.25	0.25	0.5	0.5	0.75	0.75	0.75

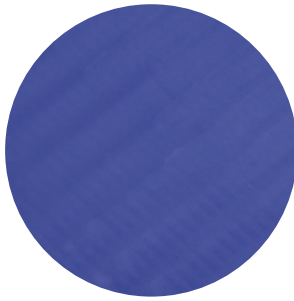
- Excellent resistance to oils, humidity, wet environments and belt wash-down procedures
- Homogenous construction eliminates chance of backside structure delamination
- No-Gap construction minimizes contamination possibility
- Standard compound: dark blue Polyurethane thermoplastic 85 ShA (70 ShA, 90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

Standard Surfaces	T5			T10		
	Total Thickness	Profile Height	Roll Length	Total Thickness	Profile Height	Roll Length
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.			6.2 +/- 0.3 mm	1.7 mm	50 m
Spike Top	4.1 +/- 0.3 mm	1.3 mm	50 m	6.1 +/- 0.3 mm	1.3 mm	50 m

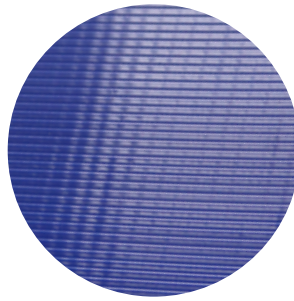




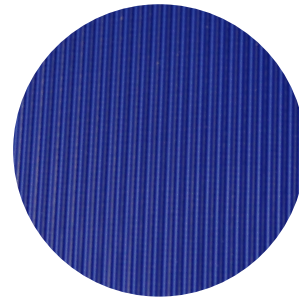
## STANDARD SURFACE PROFILE OPTIONS



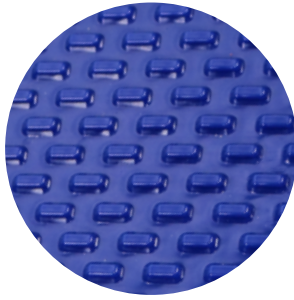
SMOOTH



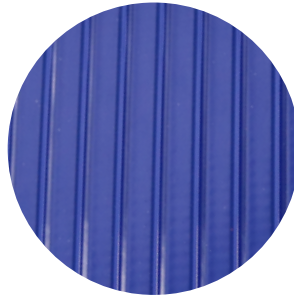
LONGITUDINAL RIBBED



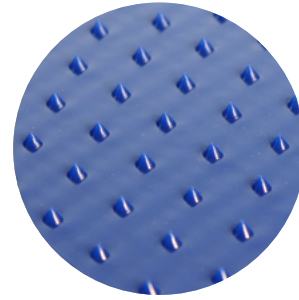
TRANSVERSAL RIBBED



NOPPEN OVAL



ROOF



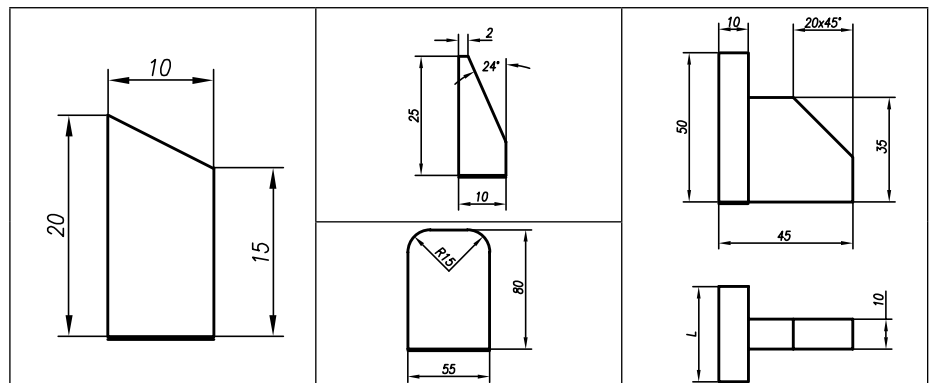
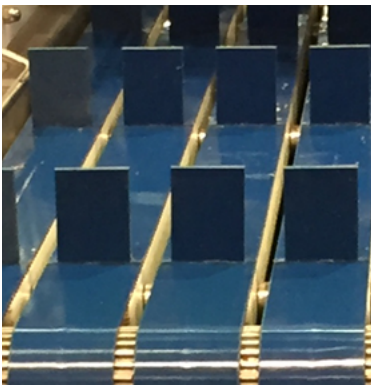
SPIKE TOP

## 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.



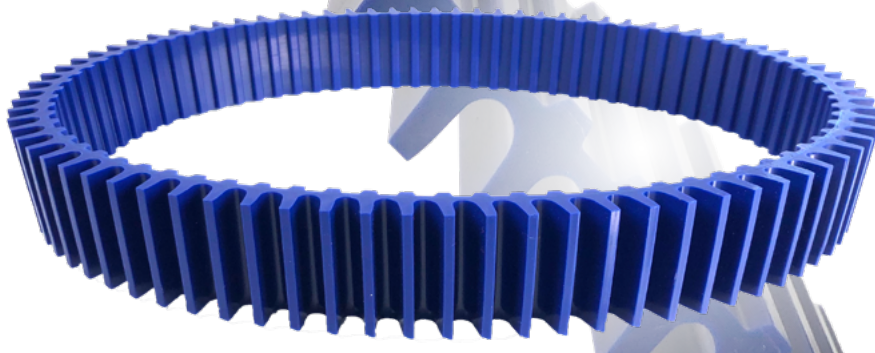
## MADE TO ORDER MEGALINEAR-FC

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, tooth shapes and cord density options are possible.

### 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 durometer (transport side)	
Max load to be conveyed	
Desired color	
Annual usage	
Application temperature	
<i>If cleats are needed:</i>	
<i>Number of cleats needed</i>	
<i>Spacing of Cleats</i>	
<i>Cleat design - please sketch with dimensions</i>	
A sketch of desired surface impression with dimensions	

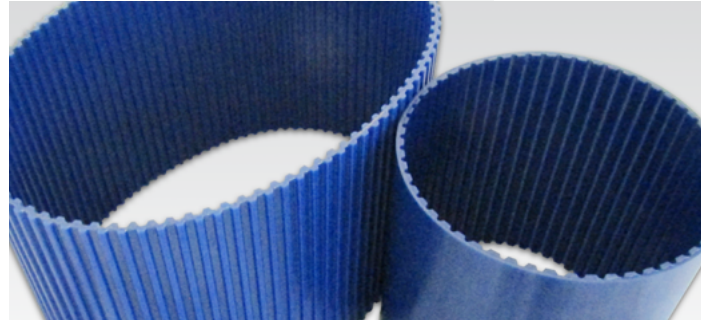




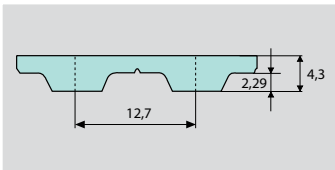
# MEGAPOWER FC

**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 rigorous wash down procedures are common. Featuring **stainless steel cords** 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 Compound: Thermoset PU88 ShA dark blue (RAL 5002)
- Elastomer meets EU Regulations 1935/2004/EU 10/2011 and EU 174/2015
- Cords: Z twist stainless steel AISI 304
- Working temperature -25°C/+80°C (-13°F to +176°F)
- Backside cleats/profiles are possible with special tooling



## H

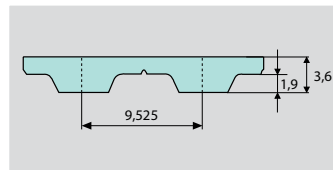


Standard Belt Widths mm (in)	19.1 (0.75")	25.4 (1.00")	38.1 (1.50")	50.8 (2.00")	76.2 (3.00")
Standard Pulley Widths (mm)	25.4 (1.00")	29.7 (1.17")	46 (1.80")	59 (2.32")	85 (3.35")
Belt Weight (gr/cm)	0.745	1.059	1.594	2.121	3.194

Standard belt width tolerance: **+/- 0.80 mm (0.031")**

Standard thickness tolerance: **+/- 0.30 mm (0.012")**

## L

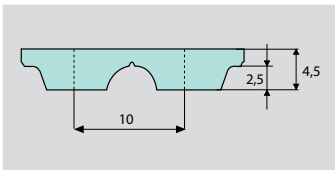


Standard Belt Widths (mm)	12.7 (0.50")	19.1 (0.75")	25.4 (1.00")
Standard Pulley Widths (mm)	19 (0.75")	25.4 (1.00")	29.7 (1.17")
Belt Weight (gr/cm)	0.437	0.661	0.878

Standard belt width tolerance: **+/- 0.80 mm (0.031")**

Standard thickness tolerance: **+/- 0.30 mm (0.012")**

## AT10

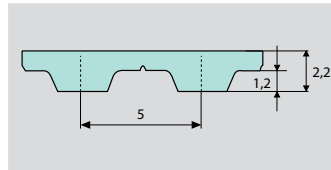


Standard Belt Widths (mm)	10	12	16	20	25	32	50	75
Standard Pulley Widths (mm)	15	17	21	25	30	37	56	80
Belt Weight (gr/cm)	0.578	0.707	0.952	1.184	1.469	1.905	3.005	4.344

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

Standard thickness tolerance: **+/- 0.30 mm**

## T5

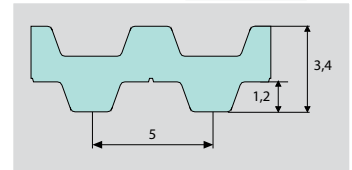


Standard Belt Widths (mm)	6	8	10	12	16	20	25
Standard Pulley Widths (mm)	12	13	15	17	21	25	30
Belt Weight (gr/cm)	0.116	0.152	0.194	0.237	0.249	0.390	0.497

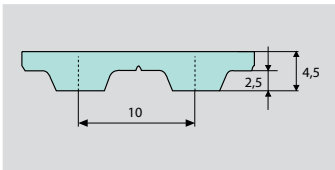
Standard belt width tolerance: **+/- 0.50 mm**

Standard thickness tolerance: **+/- 0.15 mm**

## T5 DD



## T10

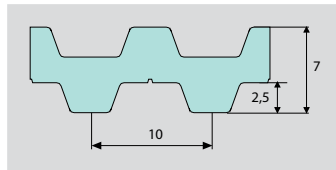


Standard Belt Widths (mm)	10	12	16	20	25	32	50	75
Standard Pulley Widths (mm)	15	17	21	25	30	37	56	80
Belt Weight (gr/cm)	0.494	0.504	0.683	0.861	1.082	1.386	2.174	3.276

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

Standard thickness tolerance: **+/- 0.30 mm**

## T10 DD



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

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