MODUTECH®

MP80

Micro Pitch Modular Belt Series

MP80 C
MP80 FG
***MP80 NS** (Non-Slip)*
***MP80 NP** (Negative Pyramid)*
Sprockets
Engineering Information



www.modutech.com.tr





MP80 C

Micro Pitch Modular Belt Series

- **Bakery Applications**

Row Dough Handling, Divider, Proofer Lines, Laminating Lines

- **Meat Applications**

Transfer - Crossover Conveyance and Metal Detectors

- **Seafood Applications**

Grading Lines and Weighing Lines

- **Fruits and Vegetables Applications**

Control and Sorting Tables

- **Snack Food Applications**

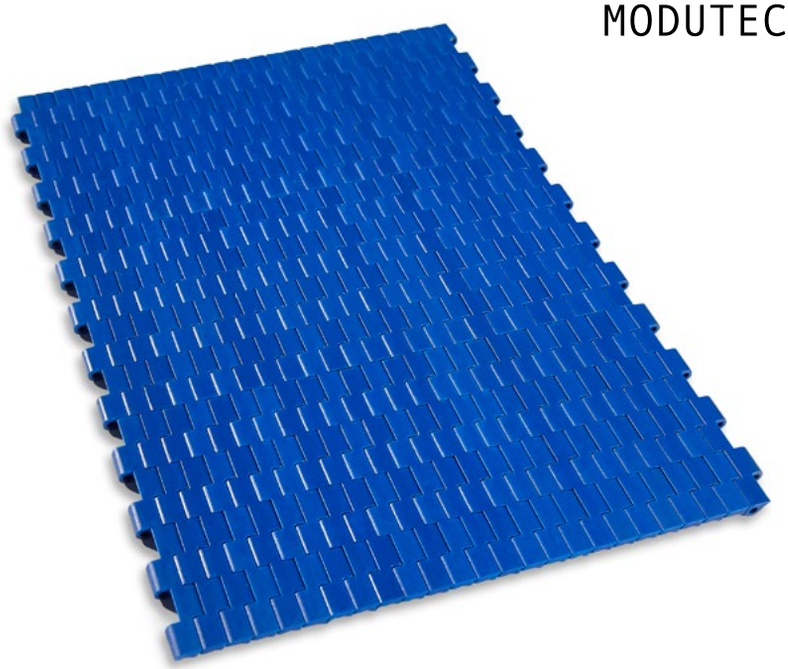
Cooling Lines

- **Beverage Applications**

Box Transfer

MP80 C

Pitch:	8 mm / **0.315 inch**
Belt Surface:	Close, Smooth Surface
Minimum Width:	101,6 mm / **4 inch**
Open Area (%):	0%
Flight:	No
Sidewall:	No
Rod:	Ø3 mm / **0.118 inch**
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	6 mm / **0.236 inch**
Min. Nosebar Diameter:	6 mm / **0.236 inch**



Product Features and Functional Benefits

- Micro pitch series with small transfer gaps for tight transfer.
- Designed to run over 6 mm nosebars or rollers.
- Belt and sprocket design ensures superior load transmission and belt pull capacity.
- Headless pin making it very easy to install and remove the belt for maintenance.

Available Moulded Module Sizes

- 203,2 mm / **8 inch** module
- 101,6 mm / **4 inch** module

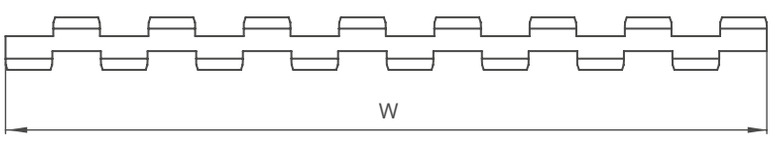
MP80 C / Technical Information

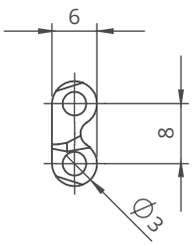
BELT / PIN MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Acetal / Acetal	2750	**188**	-	-	-43 / **-45.4**	+110 / **+230**	5,3 / **1.09**

- Belt strength and temperature values are maximum on the table.

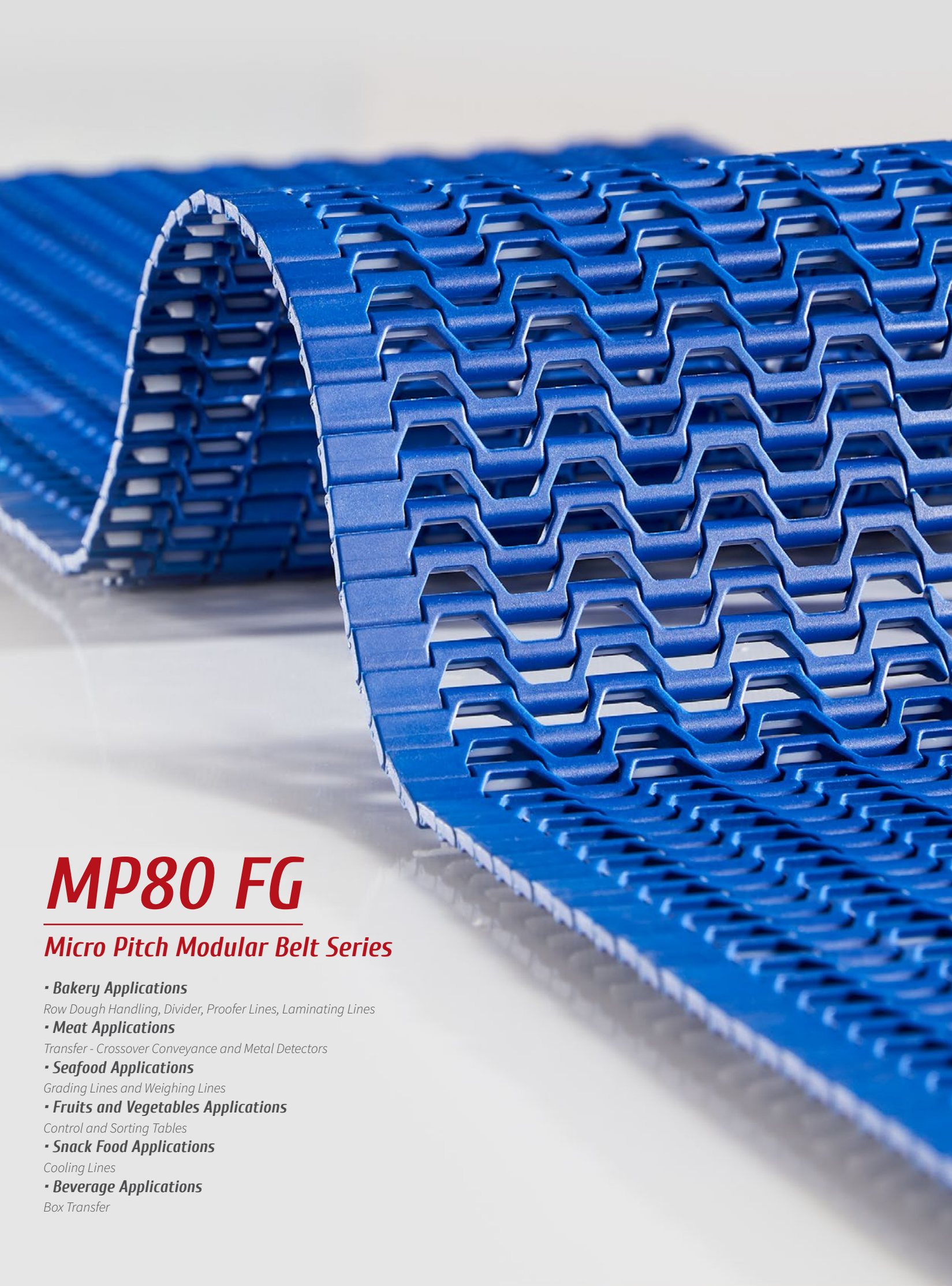
MP80 C / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MP80 C	-	-	101,6	**4.0**	± 1 mm
MP80 C	-	-	203,2	**8.0**	± 1 mm
MP80 C	-	-	304,8	**12.0**	± 1 mm
MP80 C	-	-	406,4	**16.0**	± 1 mm
MP80 C	-	-	508,0	**20.0**	± 2 mm
MP80 C	-	-	609,6	**24.0**	± 2 mm
MP80 C	-	-	711,2	**28.0**	± 2 mm
MP80 C	-	-	812,8	**32.0**	± 2 mm
MP80 C	-	-	914,4	**36.0**	± 2 mm





- **Standard belt increments 101,6 mm.**
- **Non-standard belt increments 25,4 mm**. Please contact with customer service for precise belt measurements.



MP80 FG

Micro Pitch Modular Belt Series

- **Bakery Applications**

Row Dough Handling, Divider, Proofer Lines, Laminating Lines

- **Meat Applications**

Transfer - Crossover Conveyance and Metal Detectors

- **Seafood Applications**

Grading Lines and Weighing Lines

- **Fruits and Vegetables Applications**

Control and Sorting Tables

- **Snack Food Applications**

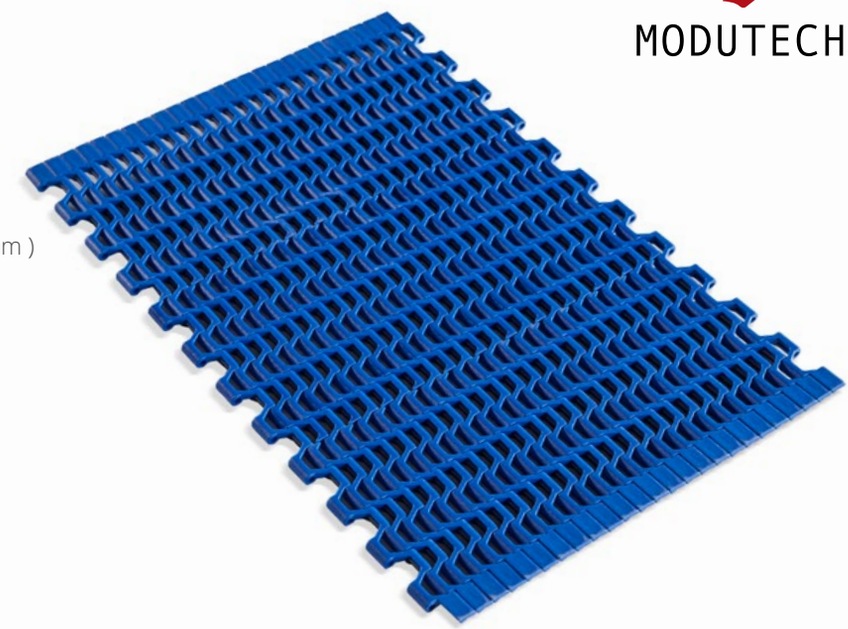
Cooling Lines

- **Beverage Applications**

Box Transfer

MP80 FG

Pitch:	8 mm / **0.315 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	101,6 mm / **4 inch**
Open Area (%):	34%. (Biggest opening 6,5 x 13 mm)
Flight:	No
Sidewall:	No
Rod:	Ø3 mm / **0.118 inch**
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	6 mm / **0.236 inch**
Min. Nosebar Diameter:	6 mm / **0.236 inch**



Product Features and Functional Benefits

- Micro pitch series with small transfer gaps for tight transfer.
- Designed to run over nosebars/knife edges or rollers with a radius down to 3mm **(0.12 inch)** allowing, precise transfer of even the smallest products.
- Versatile for conveying, drying and cooling applications.
- Optimal design of sprocket teeth, and belt underside provides superior sprocket engagement, safe belt tracking and favorable cleanability.
- Headless pin making it very easy to install and remove the belt for maintenance.

Available Moulded Module Sizes

- 203,2 mm / **8 inch** module
- 101,6 mm / **4 inch** module

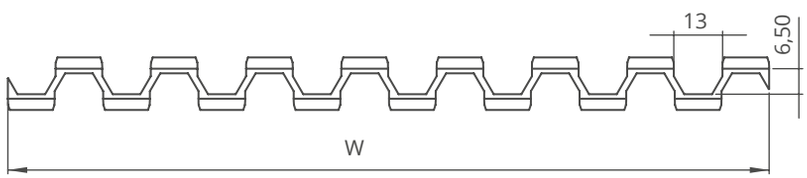
MP80 FG / Technical Information

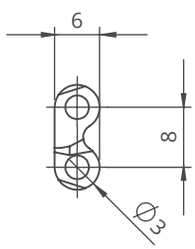
BELT / PIN MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Acetal / Acetal	2650	**181**	-	-	-43 / **-45.4**	+110 / **+230**	4,4 / **0.90**

- Belt strength and temperature values are maximum on the table.

MP80 FG / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MP80 FG	-	-	101,6	**4.0**	± 1 mm
MP80 FG	-	-	203,2	**8.0**	± 1 mm
MP80 FG	-	-	304,8	**12.0**	± 1 mm
MP80 FG	-	-	406,4	**16.0**	± 1 mm
MP80 FG	-	-	508,0	**20.0**	± 2 mm
MP80 FG	-	-	609,6	**24.0**	± 2 mm
MP80 FG	-	-	711,2	**28.0**	± 2 mm
MP80 FG	-	-	812,8	**32.0**	± 2 mm
MP80 FG	-	-	914,4	**36.0**	± 2 mm





- **Standard belt increments 101,6 mm.**
- **Non-standard belt increments 25,4 mm**. Please contact with customer service for precise belt measurements.



MP80 NS

Micro Pitch Modular Belt Series

- **Bakery Applications**

Row Dough Handling, Divider, Proofer Lines, Laminating Lines

- **Meat Applications**

Transfer - Crossover Conveyance and Metal Detectors

- **Seafood Applications**

Grading Lines and Weighing Lines

- **Fruits and Vegetables Applications**

Control and Sorting Tables

- **Snack Food Applications**

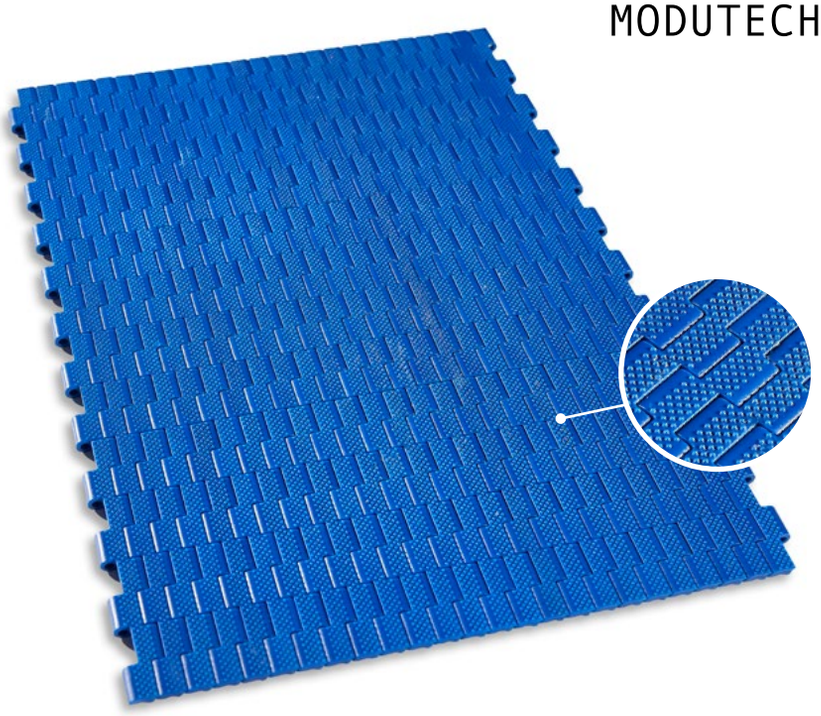
Cooling Lines

- **Beverage Applications**

Box Transfer

MP80 NS

Pitch:	8 mm / **0.315 inch**
Belt Surface:	Close, Non-Slip Surface
Minimum Width:	101,6 mm / **4 inch**
Open Area (%):	0%
Flight:	No
Sidewall:	No
Rod:	Ø3 mm / **0.118 inch**
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	6,4 mm / **0.252 inch**
Min. Nosebar Diameter:	6 mm / **0.236 inch**



Product Features and Functional Benefits

- Closed surface and pointed studs, cone top surface pattern for superior grip
- Micro pitch series with small transfer gaps for tight transfer.
- Designed to run over nosebars/knife edges or rollers with a radius down to 3mm **(0.12 inch)** allowing, precise transfer of even the smallest products.
- Optimal design of sprocket teeth, and belt underside provides superior sprocket engagement, safe belt tracking and favorable cleanability.
- Headless pin making it very easy to install and remove the belt for maintenance.

Available Moulded Module Sizes

- 203,2 mm / **8 inch** module
- 101,6 mm / **4 inch** module

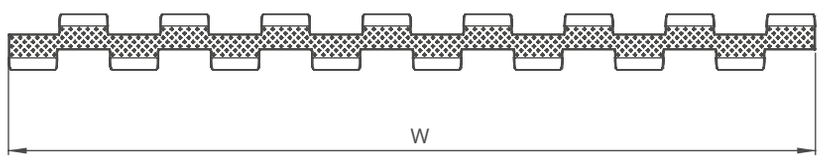
MP80 NS / Technical Information

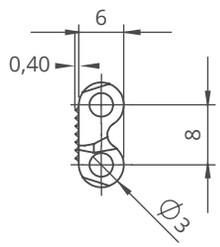
BELT / PIN MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Acetal / Acetal	2750	**188**	-	-	-43 / **-45.4**	+110 / **+230**	5,3 / **1.09**

- Belt strength and temperature values are maximum on the table.

MP80 NS / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MP80 NS	-	-	101,6	**4.0**	± 1 mm
MP80 NS	-	-	203,2	**8.0**	± 1 mm
MP80 NS	-	-	304,8	**12.0**	± 1 mm
MP80 NS	-	-	406,4	**16.0**	± 1 mm
MP80 NS	-	-	508,0	**20.0**	± 2 mm
MP80 NS	-	-	609,6	**24.0**	± 2 mm
MP80 NS	-	-	711,2	**28.0**	± 2 mm
MP80 NS	-	-	812,8	**32.0**	± 2 mm
MP80 NS	-	-	914,4	**36.0**	± 2 mm





- **Standard belt increments 101,6 mm.**
- **Non-standard belt increments 25,4 mm**. Please contact with customer service for precise belt measurements.



MP80 NP

Micro Pitch Modular Belt Series

- **Bakery Applications**

Row Dough Handling, Divider, Proofer Lines, Laminating Lines

- **Meat Applications**

Transfer - Crossover Conveyance and Metal Detectors

- **Seafood Applications**

Grading Lines and Weighing Lines

- **Fruits and Vegetables Applications**

Control and Sorting Tables

- **Snack Food Applications**

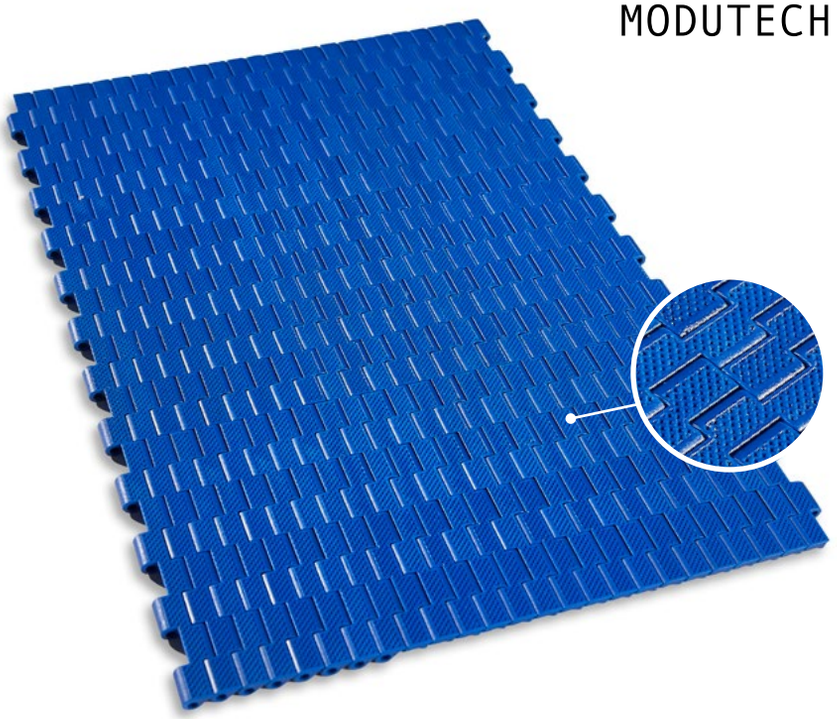
Cooling Lines

- **Beverage Applications**

Box Transfer

MP80 NP

Pitch:	8 mm / **0.315 inch**
Belt Surface:	Close, Negative Pyramid Surface
Minimum Width:	101,6 mm / **4 inch**
Open Area (%):	0%
Flight:	No
Sidewall:	No
Rod:	Ø3 mm / **0.118 inch**
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	6 mm / **0.236 inch**
Min. Nosebar Diameter:	6 mm / **0.236 inch**



Product Features and Functional Benefits

- Closed surface with inverted pyramid pattern.
- Provides superb release characteristics when conveying wet or sticky products
- Micropitch series with small transfer gaps for tight transfer.
- Designed to run over nosebars/knife edges or rollers with a radius down to 3mm **(0.12 inch)** allowing, precise transfer of even the smallest products.
- Optimal design of sprocket teeth, and belt underside provides superior sprocket engagement, safe belt tracking and favorable cleanability.
- Headless pin making it very easy to install and remove the belt for maintenance.

Available Moulded Module Sizes

- 203,2 mm / **8 inch** module
- 101,6 mm / **4 inch** module

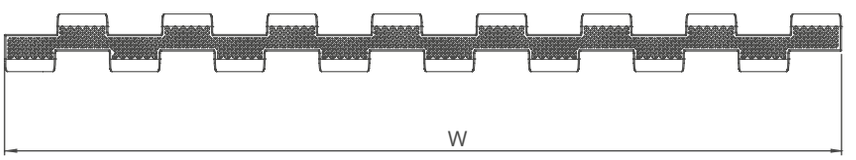
MP80 NP / Technical Information

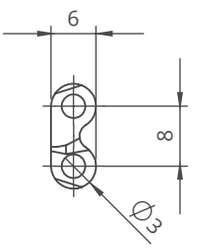
BELT / PIN MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Acetal / Acetal	2750	**188**	-	-	-43 / **-45.4**	+110 / **+230**	5,3 / **1.09**

- Belt strength and temperature values are maximum on the table.

MP80 NP / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
MP80 NP	-	-	101,6	**4.0**	± 1 mm
MP80 NP	-	-	203,2	**8.0**	± 1 mm
MP80 NP	-	-	304,8	**12.0**	± 1 mm
MP80 NP	-	-	406,4	**16.0**	± 1 mm
MP80 NP	-	-	508,0	**20.0**	± 2 mm
MP80 NP	-	-	609,6	**24.0**	± 2 mm
MP80 NP	-	-	711,2	**28.0**	± 2 mm
MP80 NP	-	-	812,8	**32.0**	± 2 mm
MP80 NP	-	-	914,4	**36.0**	± 2 mm

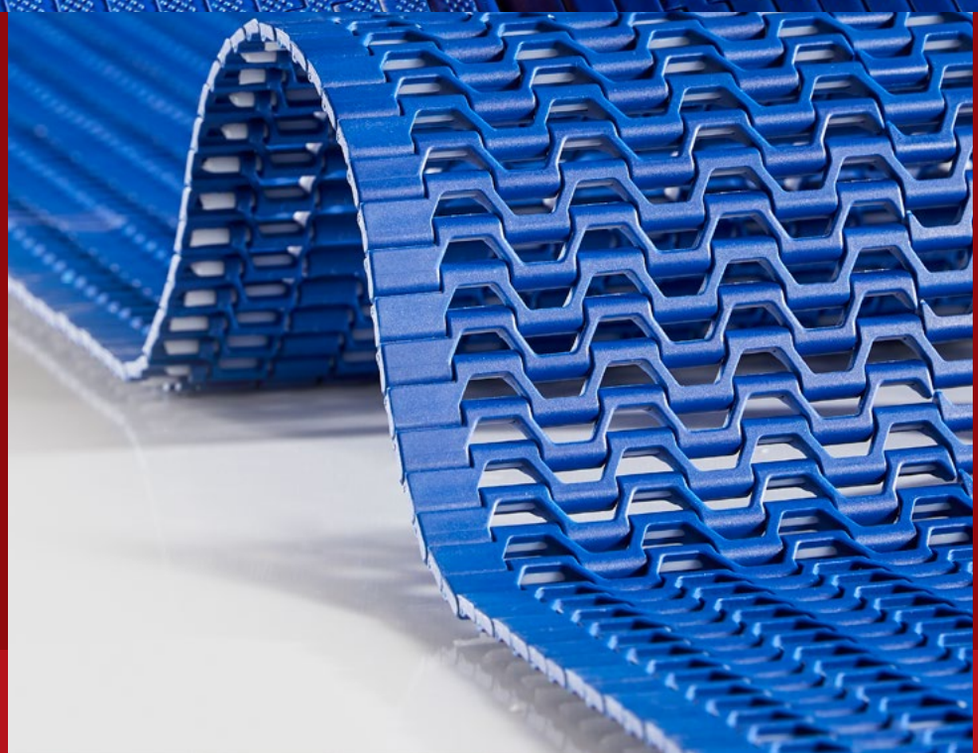




- **Standard belt increments 101,6 mm.**
- **Non-standard belt increments 25,4 mm**. Please contact with customer service for precise belt measurements.

Micro Pitch Modular Belt Series

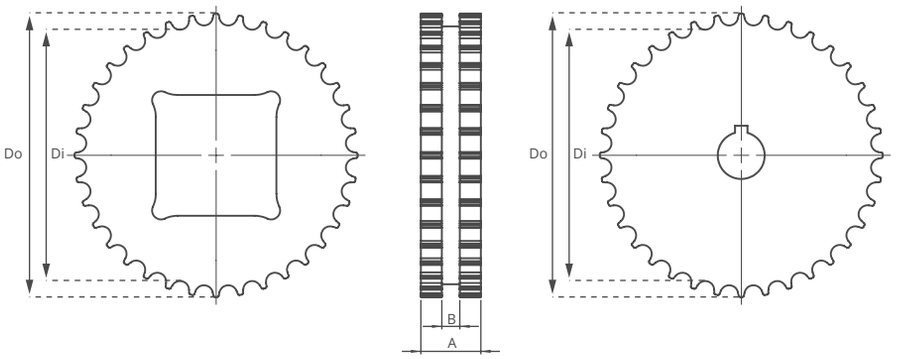




MP80 *(Micro Pitch Series)*

Technical Specifications





MP80 Micro Pitch Series / Machined Sprockets Dimensions

NO.TEETH	Di mm/**inch**	Do mm/**inch**	B mm/**inch**	A mm/**inch**	Square Bore (Q) mm/**inch**	Round Bore (R) mm/**inch**	PRODUCT CODE	
							Square Type (Q)	Round Type (R)
Z18	40,9 / **1.61**	48,0 / **1.89**	6 / **0.23**	20 / **0.78**	20 / **0.78**	25 / **1**	MP80SQZ18	MP80SRZ18
Z24	56,4 / **2.22**	63,7 / **2.51**	6 / **0.23**	20 / **0.78**	25 / **1**	25-30 / **1-1.25**	MP80SQZ24	MP80SRZ24
Z36	87,5 / **3.44**	94,9 / **3.74**	6 / **0.23**	20 / **0.78**	40 / **1.57**	25-30 / **1-1.25**	MP80SQZ36	MP80SRZ36

*All required sprockets produced by CNC.
*Other sprockets and hub sizes are manufactured up to request.
*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.
***Machined Split Sprockets are avaliable for each size.**

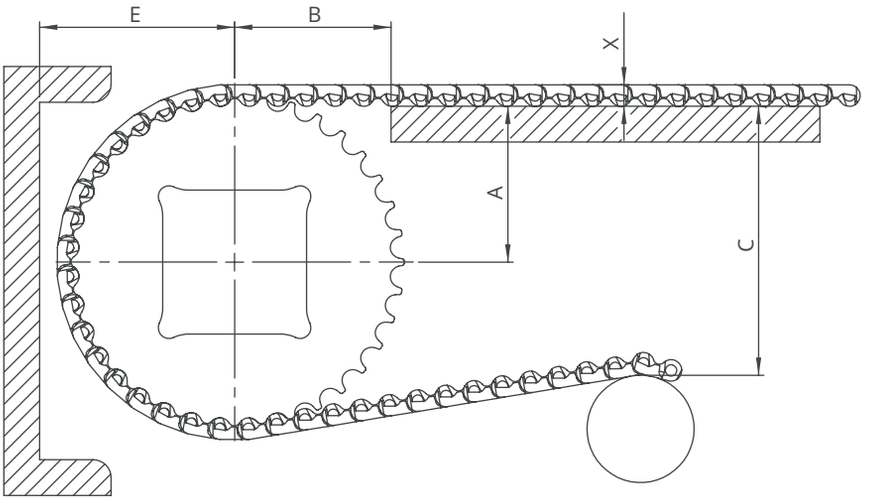


Precise transfer even the smallest products!
Micropitch belt series are suitable to run 6 mm nosebar roller.

FDA

MP80 Series *Engineering Information*

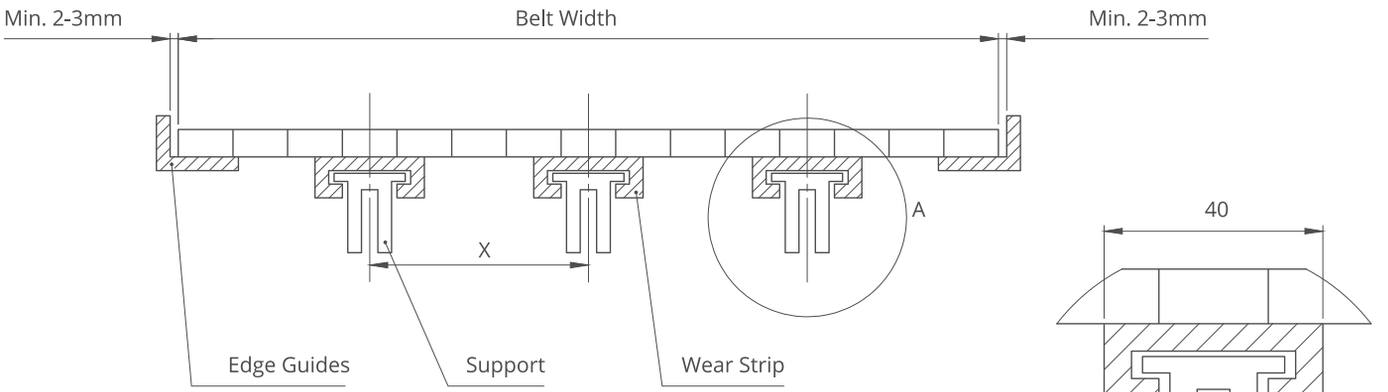
A - ± 0,031" (1mm) C - ± (Max.)
B - ± 0,125" (3mm) E - ± (Min.)



MP80 Series / Conveyor Frame Dimensions

Sprockets Description			A		B		C		E		X	
Pitch Diameter		No.Teeth	Range (Bottom to Top)									
Inch	mm		**Inch**	mm	**Inch**	mm	**Inch**	mm	**Inch**	mm	**Inch**	mm
MP80 C, MP80 FG, MP80 NP, MP80 NS												
1.85	47,0	18	**0.81**	20,5	**1.18**	30,0	**1.12**	28,5	**1.24**	31,5	**0.24**	6,0
1.95	49,5	24	**1.11**	28,3	**1.38**	35,0	**1.73**	44,0	**1.55**	39,3	**0.24**	6,0
3.68	93,5	36	**1.72**	43,8	**1.77**	45,0	**2.95**	75,0	**2.16**	54,8	**0.24**	6,0

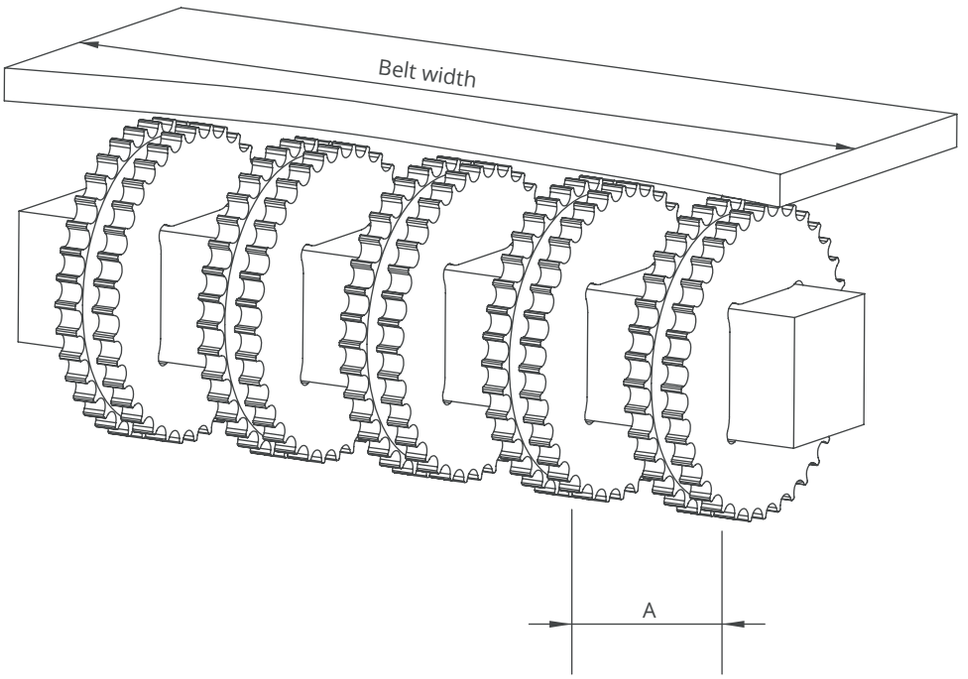
MP80 Series / Slider Support System For Straight Running Belts



Note: The max. distances between the wear strips have to be (X) ;

125 mm for 2" belts
80 mm for 1" / 0.5" belts

Detail A
Scale 1:1



MP80 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/**inch**)	
mm	**inch**	Drive Shaft	Return Shaft	Min.	Max.
101,6	**4.0**	2	2	50/**2**	100/**4**
203,2	**8.0**	3	2	50/**2**	100/**4**
304,8	**12.0**	4	3	50/**2**	100/**4**
406,4	**16.0**	5	3	50/**2**	100/**4**
508,0	**20.0**	6	4	50/**2**	100/**4**
609,6	**24.0**	7	5	50/**2**	100/**4**
711,2	**28.0**	8	6	50/**2**	100/**4**
812,8	**32.0**	9	7	50/**2**	100/**4**
914,4	**36.0**	10	8	50/**2**	100/**4**
1016,0	**40.0**	11	9	50/**2**	100/**4**
1117,6	**44.0**	12	9	50/**2**	100/**4**
1219,2	**48.0**	13	10	50/**2**	100/**4**
1320,8	**52.0**	14	11	50/**2**	100/**4**
1422,4	**56.0**	14	11	50/**2**	100/**4**
1524,0	**60.0**	15	12	50/**2**	100/**4**
1625,6	**64.0**	16	12	50/**2**	100/**4**