MODUTECH®

EC127

Modular Belt Series

EC127 C
EC127 FG
EC127 GT / Friction Top
Sprockets & Accessories
Engineering Information



www.modutech.com.tr





EC127 C

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

- **Beverage Applications**

Depalletizers, Accumulation Tables and Acceleration Lines

- **Fruits and Vegetables Applications**

Control and Sorting Tables

- **Can Manufacturing Applications**

Including Palletizers, Mass Handling and Accumulation Tables

- **Tire Manufacturing Applications**

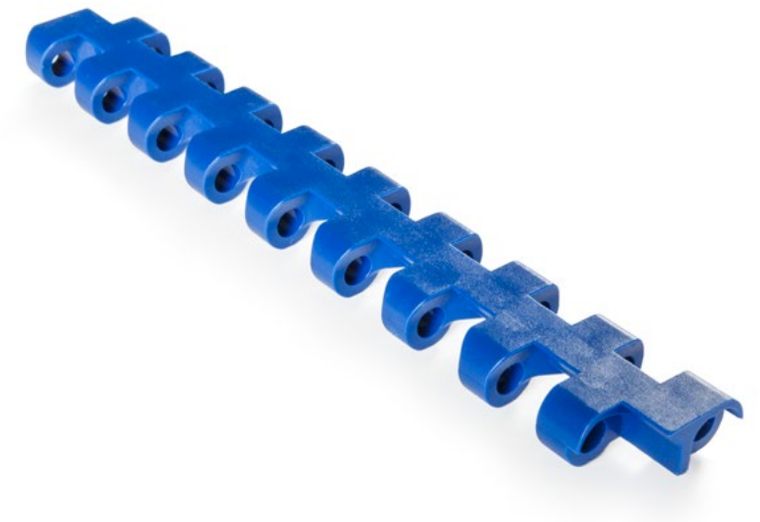
Scalling, Marking, Sciver Cementing, Water Blow - Off,
Tire Transport Horizontal

- **Corrugated Applications**

Down Stackers, Corrugator Take Off, Transfer Car

EC127 C

Pitch:	12,7 mm / **0.5 inch**
Belt Surface:	Close, Smooth Surface
Minimum Width:	50 mm / **1.97 inch**
Open Area (%):	0%
Flight:	Yes (T25, T50)
Sidewall:	No
Rod:	Ø4,7 mm / **0.185 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	10 mm / **0.394 inch**



Product Features and Functional Benefits

- Less vibration in high speed and nosebar applicaitons.
- Wear resistance in high speed applications with tight transfer.
- Unique sprocket engagement reduces pulsation.
- Tight transfer applications.
- Tight transfer and high speed conveyors.

Available Moulded Module Sizes

- 150 mm / **5.90 inch** module
- 100 mm / **3.94 inch** module
- 50 mm / **1.97 inch** module

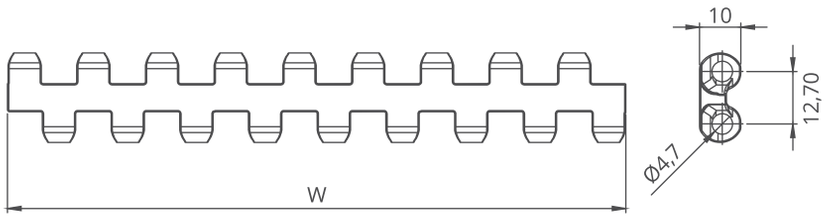
EC127 C / Technical Information

BELT 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**			
Polypropylene	12100	**829**	-	-	+5 / **+41**	+90 / **+194**	5,8 / **1.20**
Polyethylene	6600	**452**	-	-	-73 / **-99.4**	+66 / **+150.8**	6,2 / **1.27**
Acetal	19800	**1356**	-	-	-43 / **-45.4**	+110 / **+230**	8,7 / **1.78**

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

EC127 C / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
EC127 C	150,0	**5.90**	150,0	**5.90**	± 1 mm
EC127 C	200,0	**7.87**	200,0	**7.87**	± 1 mm
EC127 C	250,0	**9.84**	250,0	**9.84**	± 2 mm
EC127 C	300,0	**11.81**	300,0	**11.81**	± 2 mm
EC127 C	350,0	**13.77**	350,0	**13.77**	± 2 mm
EC127 C	400,0	**15.75**	400,0	**15.75**	± 2 mm
EC127 C	450,0	**17.71**	450,0	**17.71**	± 2 mm
EC127 C	500,0	**19.69**	500,0	**19.69**	± 2 mm
EC127 C	550,0	**21.65**	550,0	**21.65**	± 2 mm
EC127 C	600,0	**23.62**	600,0	**23.62**	± 3 mm
EC127 C	650,0	**25.60**	650,0	**25.60**	± 3 mm
EC127 C	700,0	**27.56**	700,0	**27.56**	± 3 mm
EC127 C	750,0	**29.50**	750,0	**29.50**	± 3 mm
EC127 C	800,0	**31.50**	800,0	**31.50**	± 3 mm
EC127 C	850,0	**33.46**	850,0	**33.46**	± 4 mm
EC127 C	900,0	**35.43**	900,0	**35.43**	± 4 mm



- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.



EC127 FG

Modular Belt Series

- **Bakery Applications**

Divider, Oven Infeed - Outfeed, Cooling Lines, Coating Lines, Glazing Lines

- **Poultry Applications**

Breeding Lines and Grading Lines, Weighing Lines

- **Seafood Applicaitons**

Breeding Lines, Grading Lines and Weighing Lines

- **Snack Food Applications**

Cooling Lines

- **Fruits and Vegetables Applications**

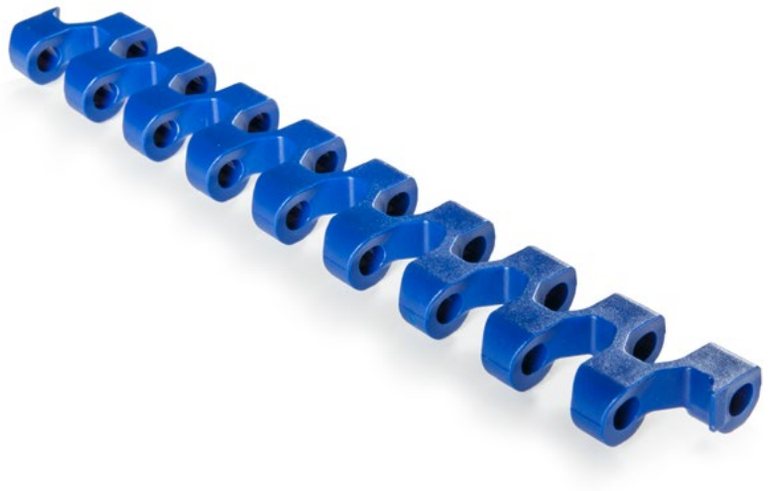
Draining, Sterilization, Conveyonce

- **Packaging Applications**

Check Weighers, Filling, Palletizing - Depalletizing, Box Transfer

EC127 FG

Pitch:	12,7 mm / **0.5 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	50 mm / **1.97 inch**
Open Area (%):	20%. (Biggest openning 3 x 6 mm)
Flight:	Yes (T25, T50)
Sidewall:	No
Rod:	Ø4,7 mm / **0.185 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Excellent
Belt Thickness:	10 mm / **0.394 inch**



Product Features and Functional Benefits

- Belt provides optimal open area for drainage and airflow.
- Less friction and product contact for easy cooking, cooling and freezing of products.
- Reduced dirt and oxide build due to self cleaning surface.

Available Moulded Module Sizes

- 150 mm / **5.90 inch** module
- 100 mm / **3.94 inch** module
- 50 mm / **1.97 inch** module

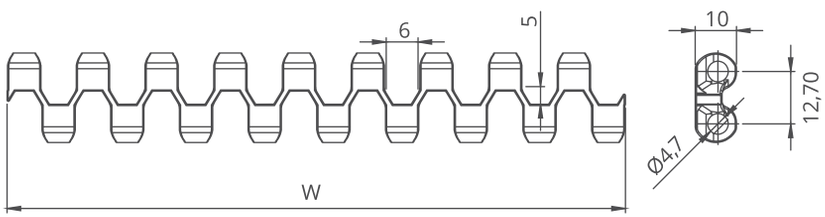
EC127 FG / Technical Information

BELT 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**			
Polypropylene	12100	**825**	-	-	+5 / **+41**	+90 / **+194**	5,2 / **1.07**
Polyethylene	6600	**452**	-	-	-73 / **-99.4**	+66 / **+150.8**	5,4 / **1.11**
Acetal	19800	**1356**	-	-	-43 / **-45.4**	+110 / **+230**	7,2 / **1.48**

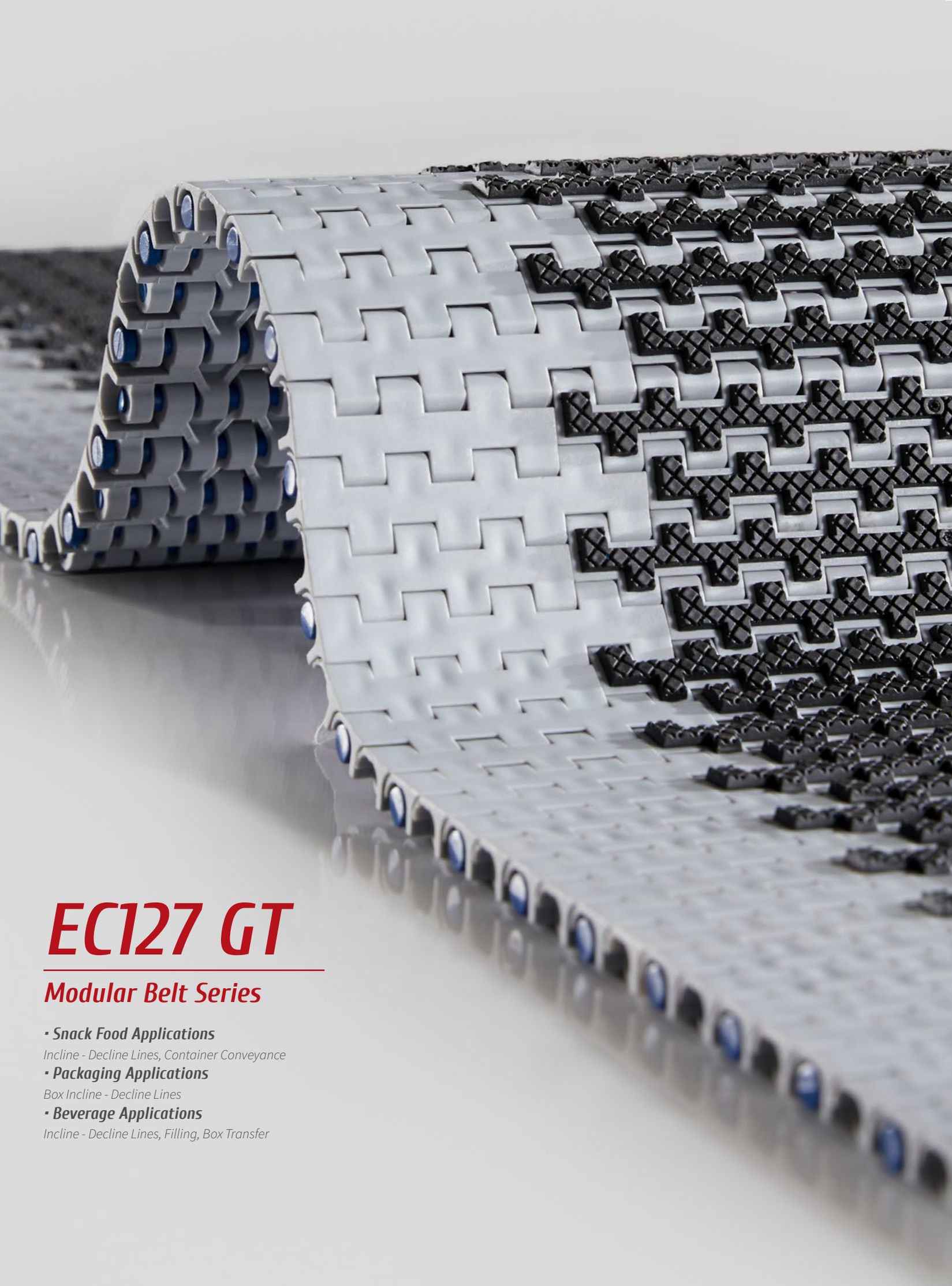
- Belt strength and temperature values are maximum on the table.

EC127 FG / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
EC127 FG	150,0	**5.90**	150,0	**5.90**	± 1 mm
EC127 FG	200,0	**7.87**	200,0	**7.87**	± 1 mm
EC127 FG	250,0	**9.84**	250,0	**9.84**	± 2 mm
EC127 FG	300,0	**11.81**	300,0	**11.81**	± 2 mm
EC127 FG	350,0	**13.77**	350,0	**13.77**	± 2 mm
EC127 FG	400,0	**15.75**	400,0	**15.75**	± 2 mm
EC127 FG	450,0	**17.71**	450,0	**17.71**	± 2 mm
EC127 FG	500,0	**19.69**	500,0	**19.69**	± 2 mm
EC127 FG	550,0	**21.65**	550,0	**21.65**	± 2 mm
EC127 FG	600,0	**23.62**	600,0	**23.62**	± 3 mm
EC127 FG	650,0	**25.60**	650,0	**25.60**	± 3 mm
EC127 FG	700,0	**27.56**	700,0	**27.56**	± 3 mm
EC127 FG	750,0	**29.50**	750,0	**29.50**	± 3 mm
EC127 FG	800,0	**31.50**	800,0	**31.50**	± 3 mm
EC127 FG	850,0	**33.46**	850,0	**33.46**	± 4 mm
EC127 FG	900,0	**35.43**	900,0	**35.43**	± 4 mm



- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.



EC127 GT

Modular Belt Series

- ***Snack Food Applications***

Incline - Decline Lines, Container Conveyance

- ***Packaging Applications***

Box Incline - Decline Lines

- ***Beverage Applications***

Incline - Decline Lines, Filling, Box Transfer

EC127 GT

Pitch:	12,7 mm / **0.5 inch**
Belt Surface:	Close, Friction Surface
Minimum Width:	150 mm / **5.90 inch**
Open Area (%):	0%
Flight:	Yes (T25, T50)
Sidewall:	No
Rod:	Ø4,7 mm / **0.185 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Excellent
Belt Thickness:	12,5 mm / **0.49 inch**



Product Features and Functional Benefits

- Unique rubber top eliminates wear and increases friction in incline-decline applications.
- Minimum nosebar diameter 18 mm.
- Tight transfer applications.

Available Moulded Module Sizes

- 150 mm / **5.90 inch** module

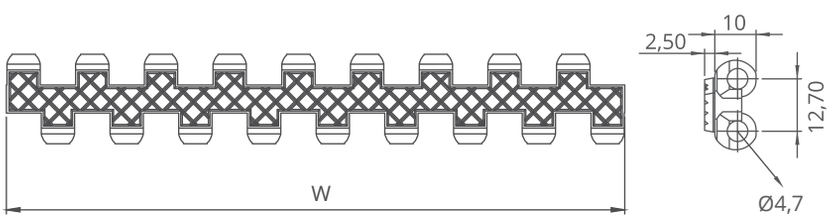
EC127 GT / Technical Information

BELT 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**			
Polypropylene	9900	**679**	-	-	+5 / **+41**	+90 / **+194**	6,5 / **1.33**
Polyethylene	-	**-**	-	-	-	-	-
Acetal	-	**-**	-	-	-	-	-

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

EC127 GT / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP		POM		
	mm	**inch**	mm	inch	
EC127 GT	150,0	**5.90**	-	-	± 1 mm
EC127 GT	200,0	**7.87**	-	-	± 1 mm
EC127 GT	250,0	**9.84**	-	-	± 2 mm
EC127 GT	300,0	**11.81**	-	-	± 2 mm
EC127 GT	350,0	**13.77**	-	-	± 2 mm
EC127 GT	400,0	**15.75**	-	-	± 2 mm
EC127 GT	450,0	**17.71**	-	-	± 2 mm
EC127 GT	500,0	**19.69**	-	-	± 2 mm
EC127 GT	550,0	**21.65**	-	-	± 2 mm
EC127 GT	600,0	**23.62**	-	-	± 3 mm
EC127 GT	650,0	**25.60**	-	-	± 3 mm
EC127 GT	700,0	**27.56**	-	-	± 3 mm
EC127 GT	750,0	**29.50**	-	-	± 3 mm
EC127 GT	800,0	**31.50**	-	-	± 3 mm
EC127 GT	850,0	**33.46**	-	-	± 4 mm
EC127 GT	900,0	**35.43**	-	-	± 4 mm



- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.

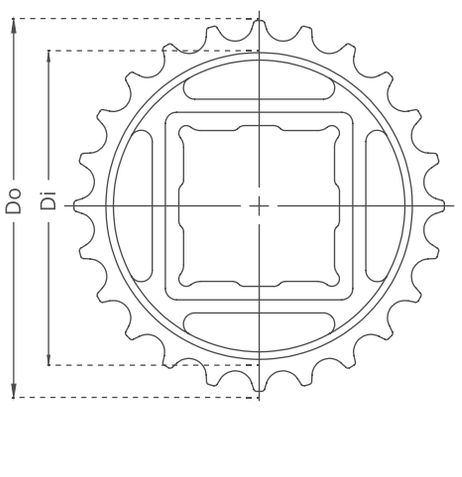
EC127 Series *Sprockets and Technical Specifications*

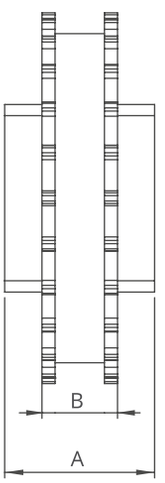


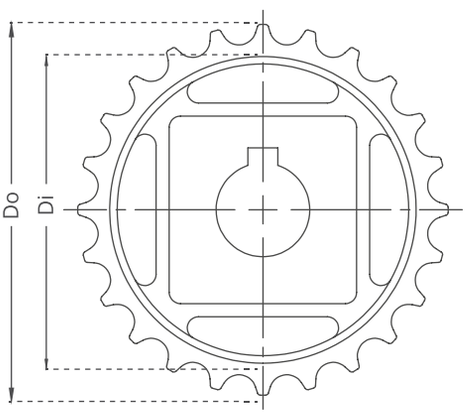
Z24

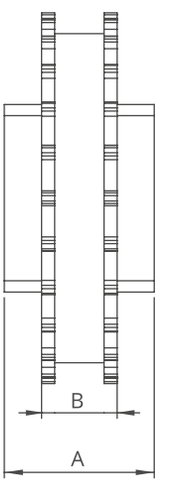


Z24









EC127 Series / Standard Moulded 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)
Z19	68,5 / **2.69**	78,0 / **2.54**	20 / **0.79**	40 / **1.57**	25-40 / **1-1.5**	25-30 / **1-1.25**	EC127SQZ19*PA	EC127SRZ19*PA
Z24	88,7 / **3.49**	98,8 / **3.89**	20 / **0.79**	40 / **1.57**	25-40 / **1-1.5**	25-30 / **1-1.25**	EC127SQZ24*PA	EC127SRZ24*PA
Z28	105,0 / **4.13**	115,2 / **4.53**	20 / **0.79**	40 / **1.57**	25-40 / **1-1.5**	25-30 / **1-1.25**	EC127SQZ28*PA	EC127SRZ28*PA
Z30	113,0 / **4.44**	123,3 / **4.85**	20 / **0.79**	40 / **1.57**	25-40 / **1-1.5**	25-30 / **1-1.25**	EC127SQZ30*PA	EC127SRZ30*PA
Z36	137,5 / **5.41**	148,0 / **5.82**	20 / **0.79**	40 / **1.57**	25-40 / **1-1.5**	25-30 / **1-1.25**	EC127SQZ36*PA	EC127SRZ36*PA

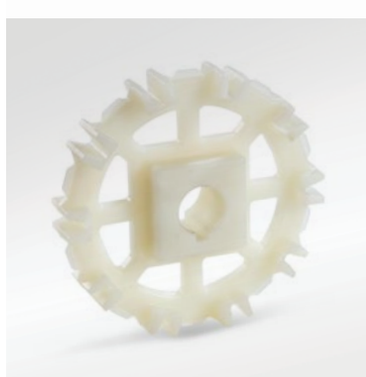
*Other sprockets and hub sizes are manufactured up to request.
*POM (Acetal) and PP (Polypropylene) sprockets raw material is available on request.
***Machined Split Sprockets are avaliable for each size.**



Clamp



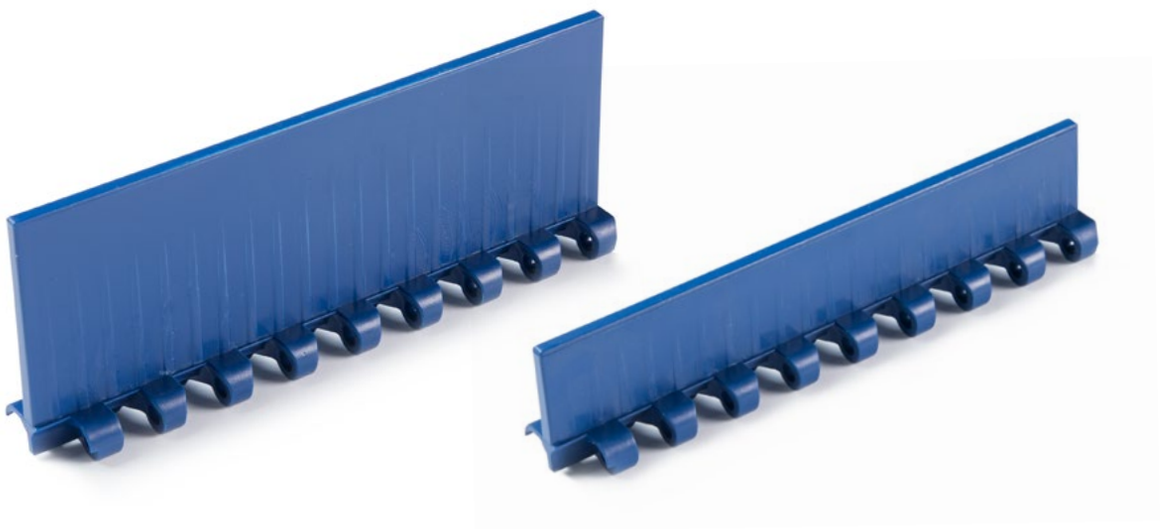
Machined Split Sprocket



Moulded Sprocket

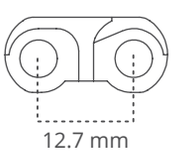


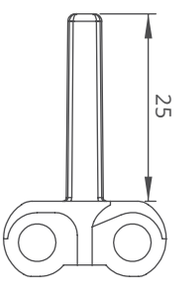
Machined Sprocket

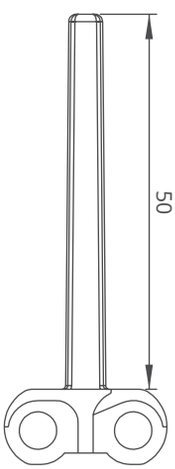


EC127 Series / Flight Dimensions

EC127 Series / Flights				
PRODUCT CODE	Flight Height (mm/**inch**)	Flight Width (mm/**inch**)	PRODUCT CODE	Sidewall Height (mm/**inch**)
EC127T25	25 / **1**	150 / **5.90**	-	-
EC127T50	50 / **2**	150 / **5.90**	-	-



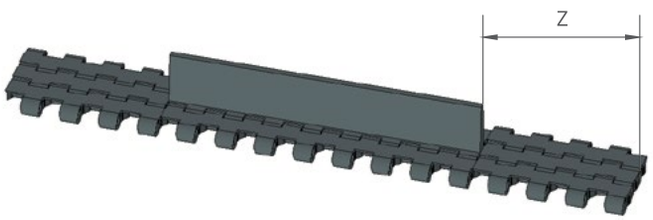




* Additional flight dimensions are available up to 50 mm.

EC127 Series / Flight Technical Specifications

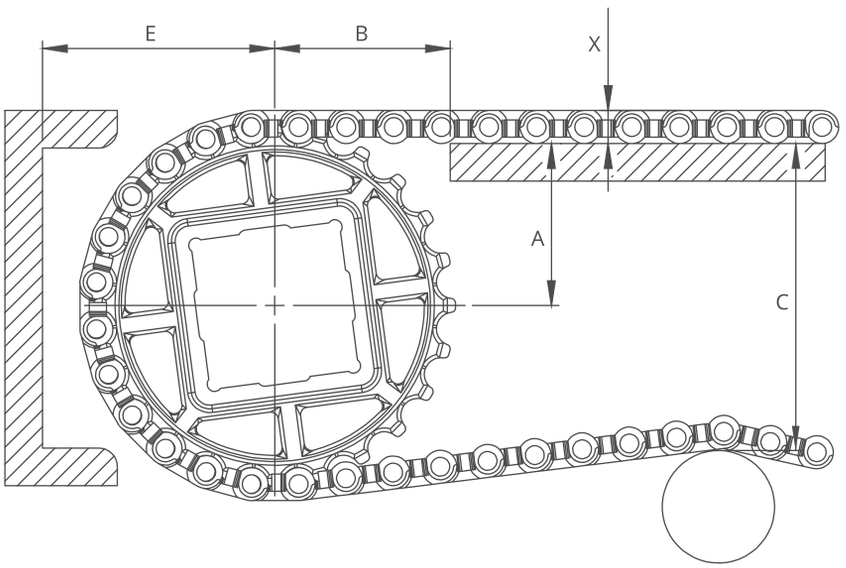
Possible Flight Indents for EC127 Series	Z	
	mm	**inch**
Standard, module cutting	33,3	**1.31**
Standard, no module cutting	50,0	**1.97**
Standard, module cutting	66,6	**2.62**
Standard, module cutting	83,3	**3.28**
Standard, no module cutting	100,0	**3.94**



***Non-standard flight indent is on request.**

EC127 Series *Engineering Information*

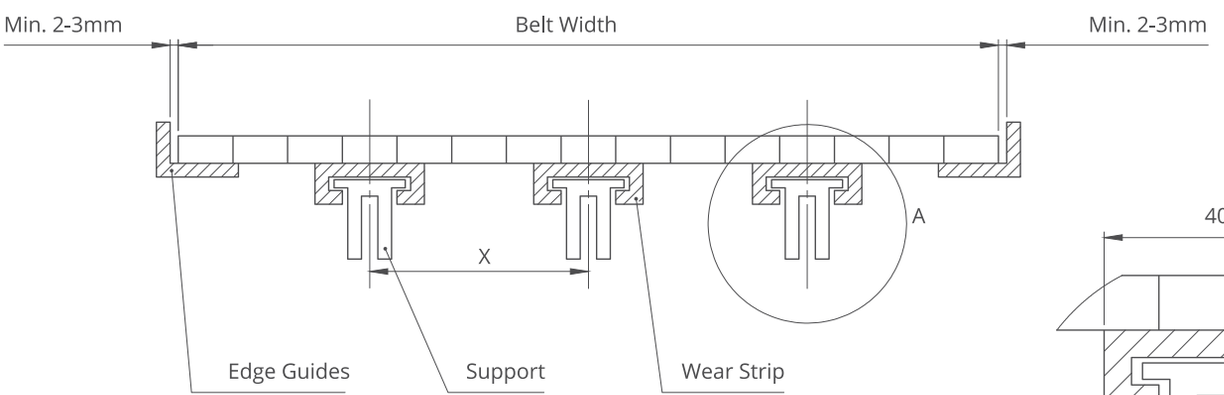
A - ± 0,031" (1mm)
B - ± 0,125" (3mm)
C - ± (Max.)
E - ± (Min.)

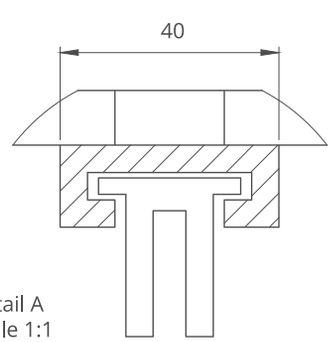


EC127 Series / Conveyor Frame Dimensions

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
EC127 C, EC127 FG												
2.89	73,4	19	**1.36**	34,5	**1.67**	42,5	**2.83**	72,0	**2.09**	53,0	**0.39**	10,0
3.69	93,8	24	**1.73**	44,0	**1.89**	48,0	**3.23**	82,0	**2.48**	63,0	**0.39**	10,0
4.33	110,1	28	**2.07**	52,5	**2.05**	52,0	**3.86**	98,0	**2.80**	71,0	**0.39**	10,0
4.66	118,3	30	**2.24**	57,0	**2.13**	54,0	**4.02**	102,0	**2.95**	75,0	**0.39**	10,0
5.62	142,7	36	**2.72**	69,0	**2.35**	59,8	**4.96**	126,0	**3.43**	87,0	**0.39**	10,0
EC127 GT												
2.89	73,4	19	**1.46**	37,0	**1.67**	42,5	**2.83**	72,0	**2.19**	55,5	**0.49**	12,5
3.69	93,8	24	**1.83**	46,5	**1.89**	48,0	**3.23**	82,0	**2.58**	65,5	**0.49**	12,5
4.33	110,1	28	**2.17**	55,0	**2.05**	52,0	**3.86**	98,0	**2.89**	73,5	**0.49**	12,5
4.66	118,3	30	**2.34**	59,5	**2.13**	54,0	**4.02**	102,0	**3.05**	77,5	**0.49**	12,5
5.62	142,7	36	**2.81**	71,5	**2.35**	59,8	**4.96**	126,0	**3.52**	89,5	**0.49**	12,5

EC127 Series / Slider Support System For Straight Running Belts

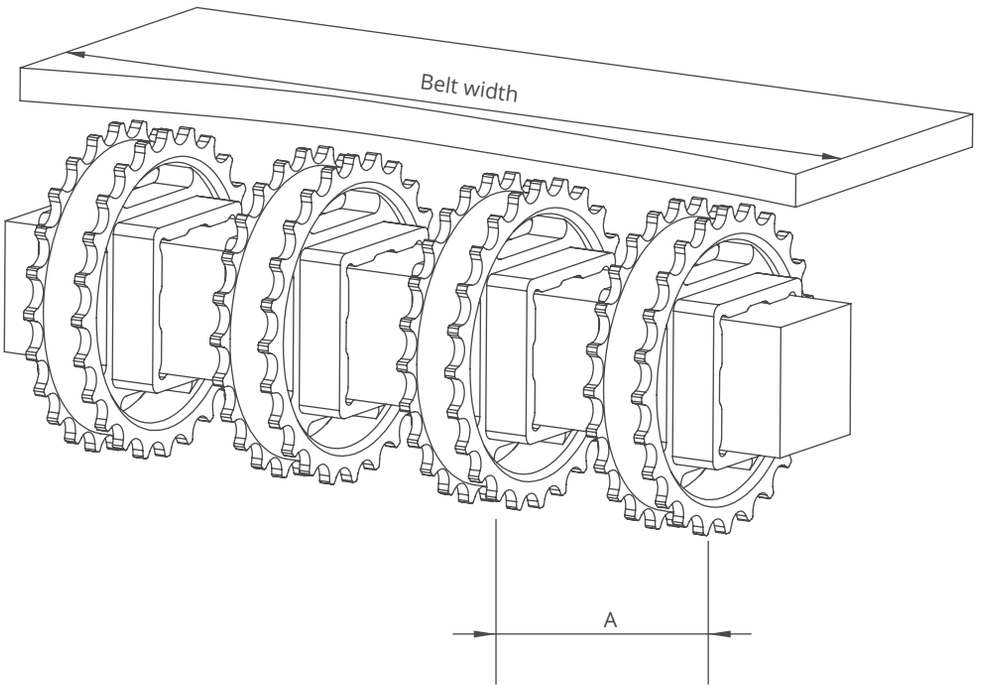




Detail A
Scale 1:1

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

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



EC127 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
150,0	**5.91**	2	2	50/**2**	100/**4**
200,0	**7.87**	3	2	50/**2**	100/**4**
250,0	**9.84**	3	2	50/**2**	100/**4**
300,0	**11.81**	4	3	50/**2**	100/**4**
350,0	**13.78**	4	3	50/**2**	100/**4**
400,0	**15.75**	5	3	50/**2**	100/**4**
450,0	**17.72**	5	3	50/**2**	100/**4**
500,0	**19.69**	6	4	50/**2**	100/**4**
550,0	**21.65**	7	4	50/**2**	100/**4**
600,0	**23.62**	7	4	50/**2**	100/**4**
650,0	**25.59**	7	4	50/**2**	100/**4**
700,0	**27.56**	8	5	50/**2**	100/**4**
750,0	**29.53**	9	6	50/**2**	100/**4**
800,0	**31.50**	9	6	50/**2**	100/**4**
850,0	**33.46**	10	7	50/**2**	100/**4**
900,0	**35.43**	11	7	50/**2**	100/**4**
950,0	**37.40**	11	7	50/**2**	100/**4**
1000,0	**39.37**	11	7	50/**2**	100/**4**
1050,0	**41.34**	11	7	50/**2**	100/**4**
1100,0	**43.31**	12	7	50/**2**	100/**4**
1150,0	**45.28**	12	7	50/**2**	100/**4**
1200,0	**47.24**	12	7	50/**2**	100/**4**
1250,0	**49.21**	13	8	50/**2**	100/**4**
1300,0	**51.18**	13	8	50/**2**	100/**4**
1350,0	**53.15**	13	8	50/**2**	100/**4**
1400,0	**55.12**	14	8	50/**2**	100/**4**