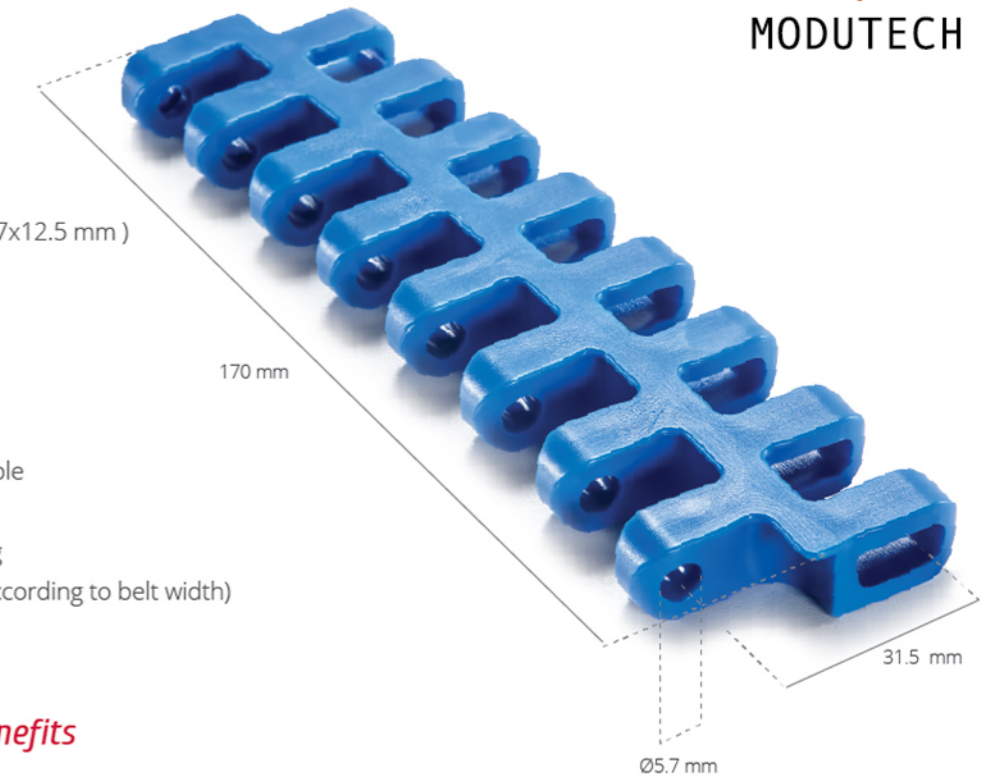




EC315 R

Pitch :	31.5 mm
Belt Surface :	Smooth Surface
Minimum Width :	170 mm
Open Area (%) :	%32. (Biggest opening 7x12.5 mm)
Flight :	No
Side Wall :	No
Rod :	Ø5.7 mm
Approved :	FDA and EU
Curve :	Yes
Color :	Additional colors available
Cleanability :	Good
Application :	Straight and side flexing
Collapse Factor :	2.1 - 2.4 (Changeable according to belt width)
Belt Width:	13 mm



Product Features and Functional Benefits

- Available for medium and high load capacity.
- 180 degree high speed side flexing applications.
- High temperature and wear resistance.
- Unique locking system.
- Belt provides optimal open area for drainage and airflow.

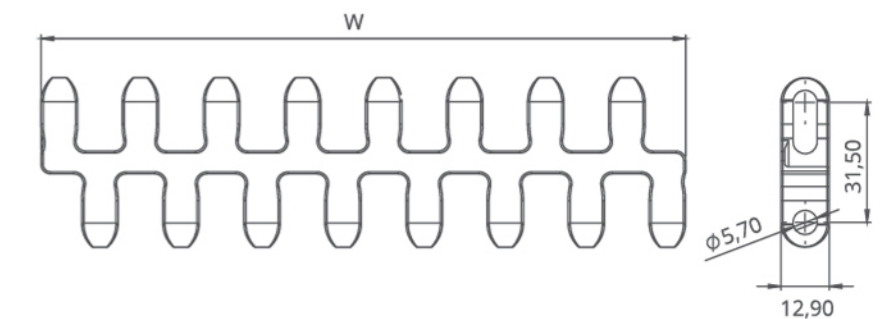
EC315 R / Technical Information

BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WIDTH
	Straight		Curve		C(min.)	C(max.)	Kg/m ²
	Kg/m	N/m	Kg/m	N/m			
Polypropylene	1200	12000	145	1450	+5	+90	6.10
Polyethylene	-	-	-	-	-	-	-
Acetal	1744	17440	230	2300	-43	+110	10.20

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

EC315 R / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt Width Tolerance (max.)
	PP-PE		POM		
	(mm)	(inch)	(mm)	(inch)	
EC315 R	170,5	6,7	170,5	6,7	± 0,5 mm
EC315 R	192	7,6	192	7,6	± 2 mm
EC315 R	213,5	8,4	213,5	8,4	± 2 mm
EC315 R	235	9,3	235	9,3	± 3 mm
EC315 R	256,5	10,1	256,5	10,1	± 3 mm
EC315 R	278	10,9	278	10,9	± 3 mm
EC315 R	299,5	11,8	299,5	11,8	± 3 mm
EC315 R	321	12,6	321	12,6	± 4 mm
EC315 R	342,5	13,5	342,5	13,5	± 4 mm
EC315 R	364	14,3	364	14,3	± 4 mm
EC315 R	385,5	15,2	385,5	15,2	± 4 mm
EC315 R	407	16,0	407	16,0	± 4 mm
EC315 R	428,5	16,9	428,5	16,9	± 4 mm
EC315 R	450	17,7	450	17,7	± 4 mm



- Standard belt increments 21,5 mm.
- Please contact with customer service for precise belt measurements.

EC315 R

Modular Radius Belt Series

• Meat Applications

Spiral Freezer

• Poultry Applications

Spiral Freezer

• Seafood Applications

Freezing Lines, Spiral

• Bakery Applications

Spiral, Proofing, Cooling, Freezing Lines, Pan Handling

• Fruits and Vegetables Applications

Container Conveyence

• Automotive Applicatins

Car Part Manufacturing, Battery Filling

• Packaging Applications

Tray Packers, Box Tranport Horizontal

• Postal Applications

Parcel Handling

• Beverage Applications

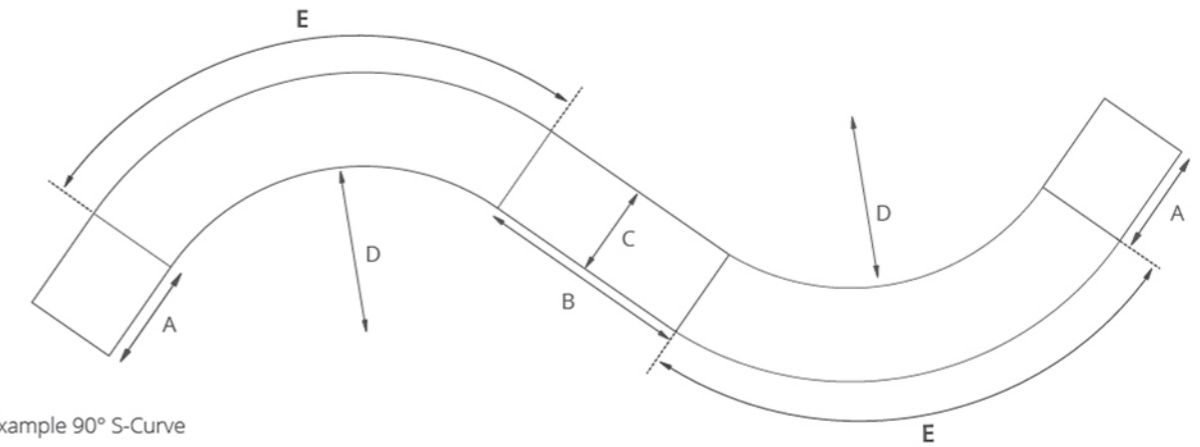
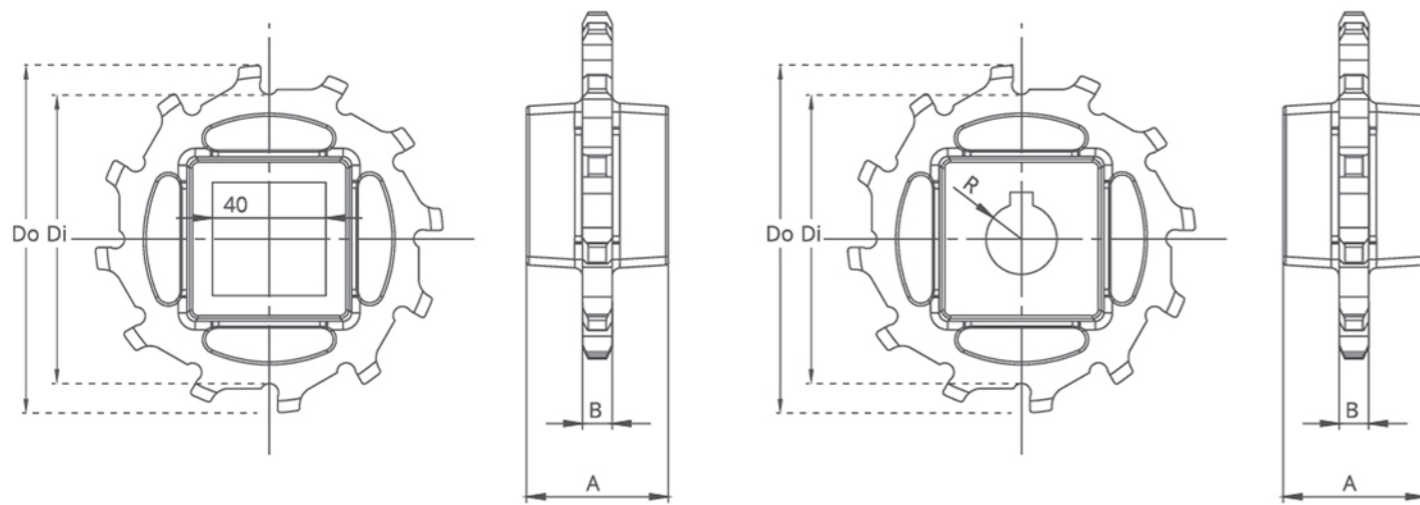
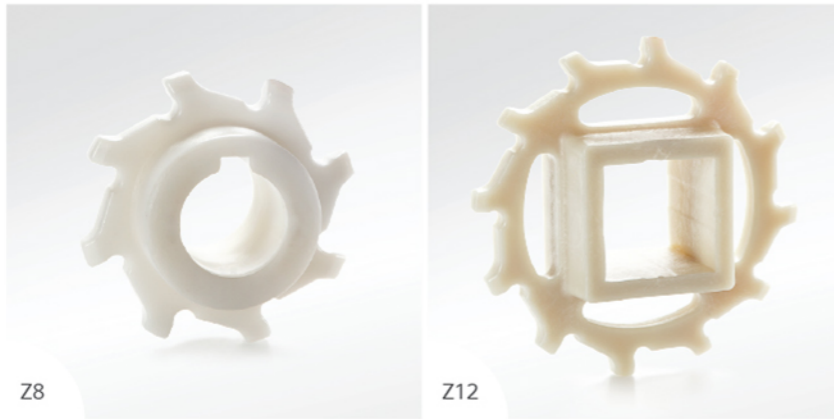
Case Conveyors, Shrink Tunnels

• Can Manufacturing Applications

Mass Handling, Transfer Conveyors Pallzetizers Infeed Conveyors

EC315 R Series Sprockets and Technical Specifications

EC315 R Series Radius Belt Calculation



Radius Belt Example 90° S-Curve

EC315 R Series / Standard Sprockets Dimensions

NO. TEETH	Di	Do	B	A	Square Bore (Q)	Round Bore (R)	PRODUCT CODE	
							Square Type (Q)	Round Type (R)
Z8	67.0	81.5	10.0 mm	50.0	-	25.0 / 30.0	-	EC315RSRZ8*PA
Z12	107.0	122.5	10.0 mm	50.0	40.0 mm	25.0 / 30.0	EC315RSQZ12*PA	EC315RSRZ12*PA
Z16	147.5	164.0	10.0 mm	50.0	40.0 mm	25.0 / 30.0	EC315RSQZ16*PA	EC315RSRZ16*PA

*Other sprockets and hub sizes are manufactured up to request.

*POM (Acetal) and PP (Polypropylene) sprockets raw material is available on request.

EC315 R Series / Radius Belt Calculation

- A: Straight run pull and n = Belt width
- B: Straight run between 2 curves = min. 2 x belt width
- C: Belt width
- D: Minimum inner radius
- E: Curve length

$$\text{Collapse Factor} = \frac{\text{Min. inner radius}}{\text{Belt width}}$$

$$\text{Minimum inner radius} = \text{Collapse Factor} \times \text{Belt width}$$

CALCULATION EXAMPLE

Belt width: 394 mm 90° Radius Belt
Collapse Factor: 2.1

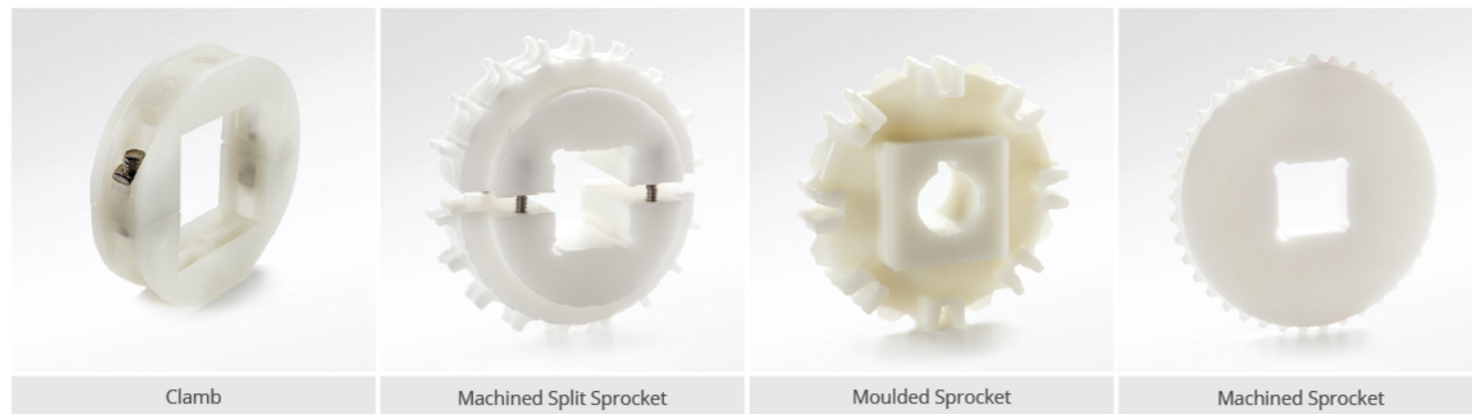
$$D: 394 \times 2.1 = 827 \text{ mm}$$

$$A: 394 \text{ (Min.)}$$

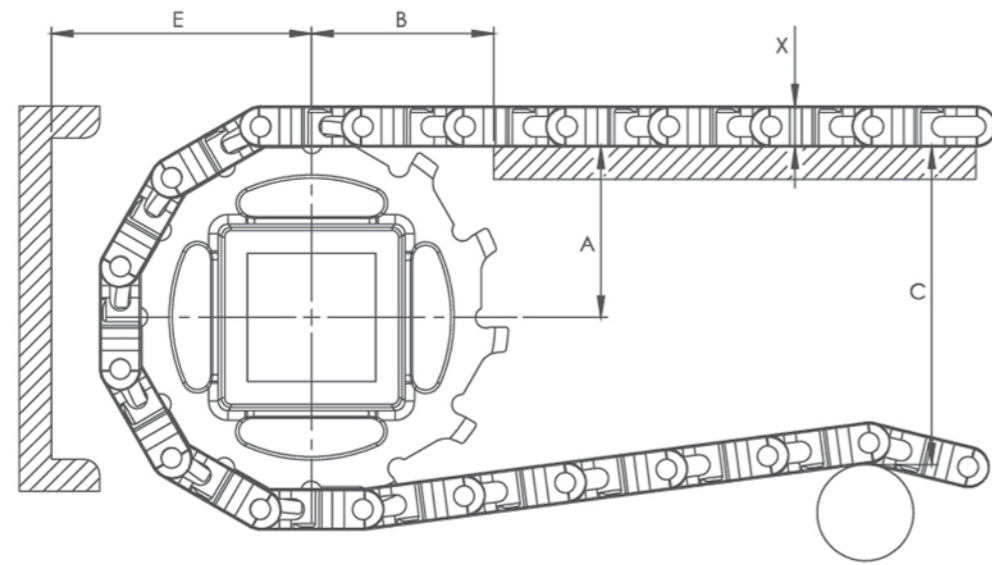
$$B: 2 \times 394 = 788 \text{ mm (Min.)}$$

$$E: \frac{(C+D) \times 3.14}{4} = 958 \text{ mm}$$

$$\text{Total length} = (2 \times A) + B + (2 \times E)$$



EC315 R Series Engineering Information

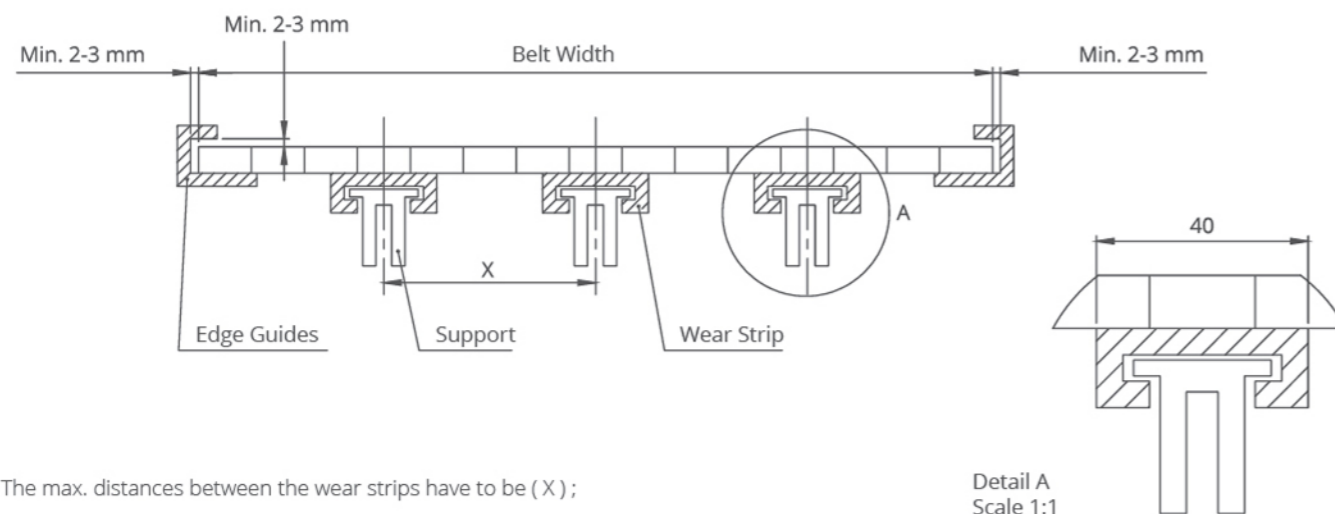


A - ± 0,031" (1mm) C - ± (Max.)
 B - ± 0,125" (3mm) E - ± (Min.)

EC315 R Series / Conveyor Frame Dimensions

Sprockets Description			A		B		C		E		X	
Pitch Diameter		No.Teeth	Range (Bottom to Top)		In.	mm	In.	mm	In.	mm	In.	mm
In.	mm		In.	mm								
EC315 R												
2,95	75	8	1,34	34	1,77	45	2,40	61	2,26	57,5	0,51	12,9
4,57	116	12	2,11	53,6	2,24	57	3,90	99	3,01	76,5	0,51	12,9
6,18	157	16	2,94	74,6	2,66	67,5	5,28	134	3,84	97,5	0,51	12,9

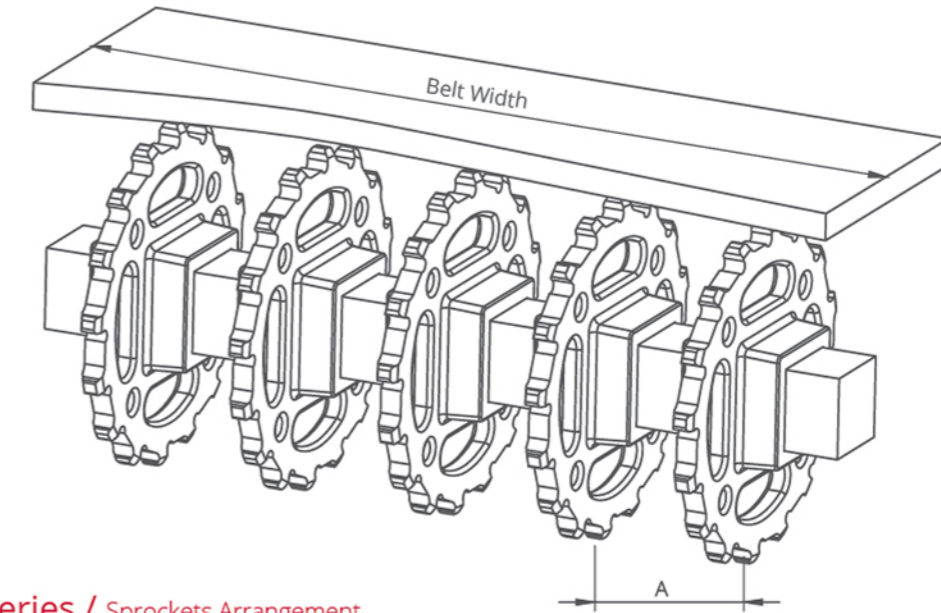
EC315 R Series / Slider Support System For Straight Running Belts



Not: The max. distances between the wear strips have to be (X);

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

EC315 R Series Engineering Information



EC315 R Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
170,5	6,7	2	2	60/2,36	170/6,6
192	7,6	2	2	60/2,36	170/6,6
213,5	8,4	2	2	60/2,36	170/6,6
235	9,3	2	2	60/2,36	170/6,6
256,5	10,1	3	2	60/2,36	170/6,6
278	10,9	3	2	60/2,36	170/6,6
299,5	11,8	3	2	60/2,36	170/6,6
321	12,6	3	2	60/2,36	170/6,6
342,5	13,5	3	3	60/2,36	170/6,6
364	14,3	4	3	60/2,36	170/6,6
385,5	15,2	4	3	60/2,36	170/6,6
407	16,0	4	3	60/2,36	170/6,6
428,5	16,9	4	3	60/2,36	170/6,6
450	17,7	5	3	60/2,36	170/6,6
471,5	18,6	5	3	60/2,36	170/6,6
493	19,4	5	4	60/2,36	170/6,6
514,5	20,3	5	4	60/2,36	170/6,6
536	21,1	5	4	60/2,36	170/6,6
557,5	21,9	6	4	60/2,36	170/6,6
579	22,8	6	4	60/2,36	170/6,6
600,5	23,6	6	4	60/2,36	170/6,6
622	24,5	6	5	60/2,36	170/6,6
643,5	25,3	6	5	60/2,36	170/6,6
665	26,2	7	5	60/2,36	170/6,6
686,5	27,0	7	5	60/2,36	170/6,6
708	27,9	7	6	60/2,36	170/6,6
729,5	28,7	7	6	60/2,36	170/6,6
751	29,6	7	6	60/2,36	170/6,6
772,5	30,4	8	7	60/2,36	170/6,6
794	31,3	8	7	60/2,36	170/6,6
815,5	32,1	8	7	60/2,36	170/6,6
837	33,0	8	7	60/2,36	170/6,6
858,5	33,8	8	7	60/2,36	170/6,6
880	34,6	9	8	60/2,36	170/6,6
901,5	35,5	9	8	60/2,36	170/6,6
923	36,3	9	8	60/2,36	170/6,6
944,5	37,2	9	8	60/2,36	170/6,6
966	38,0	10	8	60/2,36	170/6,6
987,5	38,9	10	8	60/2,36	170/6,6
1009	39,7	10	9	60/2,36	170/6,6

Note: Number of sprockets depends on the belt load.