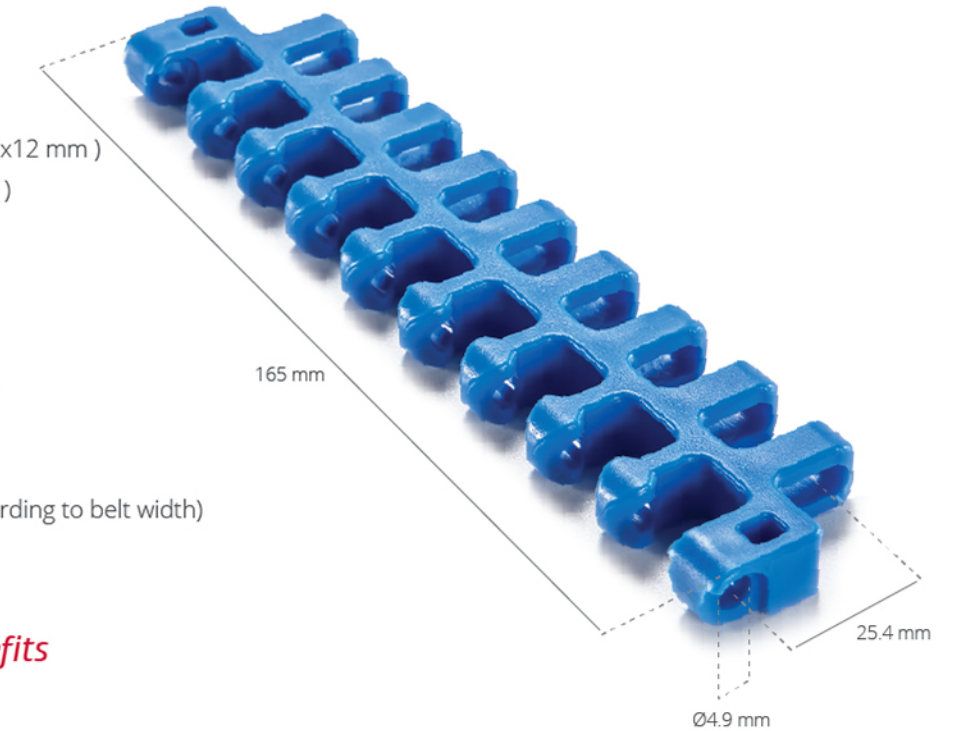


EC254 R

Pitch :	25.4 mm
Belt Surface :	Open, Smooth Surface
Minimum Width :	165 mm
Open Area (%) :	%36. (Biggest opening 7.5x12 mm)
Flight :	Yes. (h=25 mm, h=50 mm)
Side Wall :	No
Rod :	Ø4.9 mm
Approved :	FDA and EU
Curve :	Yes
Color :	Additional colors available
Cleanability :	Excellent
Application :	Straight and side flexing
Collapse Factor :	2.1 - 2.4 (Changeable according to belt width)
Belt Width:	10,8 mm



Product Features and Functional Benefits

- Available for light and medium 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.

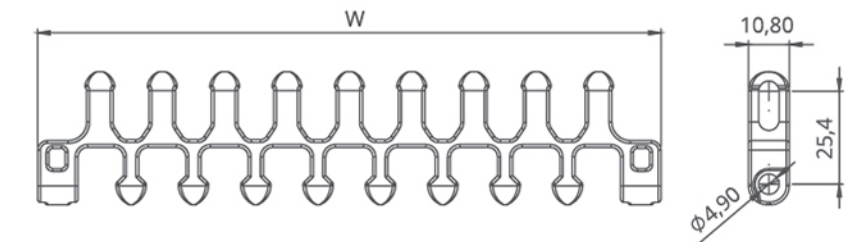
EC254 R / Technical Information

BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WIDTH
	Straight		Curve		C(min.)	C(max.)	Kg/m²
	Kg/m	N/m	Kg/m	N/m			
Polypropylene	900	9000	120	1200	+5	+90	5.10
Polyethylene	-	-	-	-	-	-	-
Acetal	1625	16250	160	1600	-43	+110	6.90

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

EC254 R / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt Width Tolerance (max.)
	PP-PE		POM		
	(mm)	(inch)	(mm)	(inch)	
EC254 R	150	6"	150	6"	± 0,5 mm
EC254 R	200	8"	200	8"	± 2 mm
EC254 R	250	10"	250	10"	± 2 mm
EC254 R	300	12"	300	12"	± 3 mm
EC254 R	350	14"	350	14"	± 3 mm
EC254 R	400	16"	400	16"	± 3 mm
EC254 R	450	18"	450	18"	± 3 mm
EC254 R	500	20"	500	20"	± 4 mm
EC254 R	550	22"	550	22"	± 4 mm
EC254 R	600	24"	600	24"	± 4 mm
EC254 R	650	26"	650	26"	± 4 mm
EC254 R	700	28"	700	28"	± 4 mm
EC254 R	750	30"	750	30"	± 4 mm
EC254 R	800	32"	800	32"	± 4 mm



- Standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.
- For bigger sizes, please contact with customer service.

EC254 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 Applications

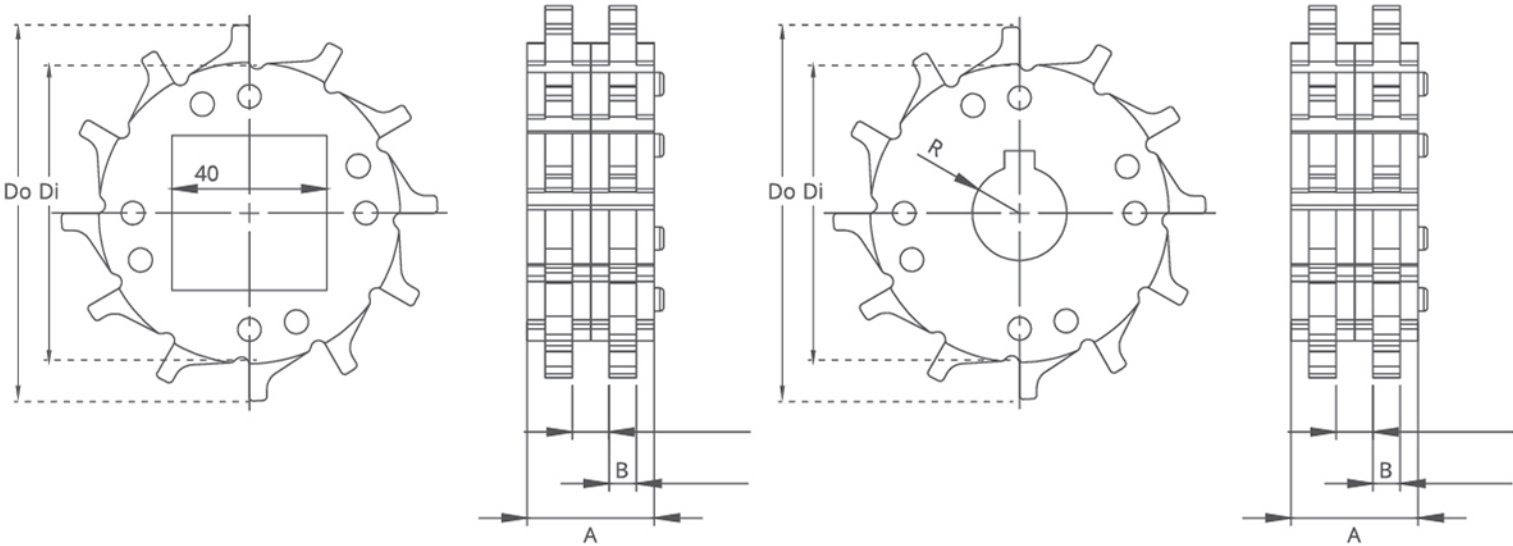
Car Part Manufacturing, Battery Filling

• Packaging Applications

Tray Packers, Box Transport Horizontal

EC254 R Series Sprockets and Technical Specifications

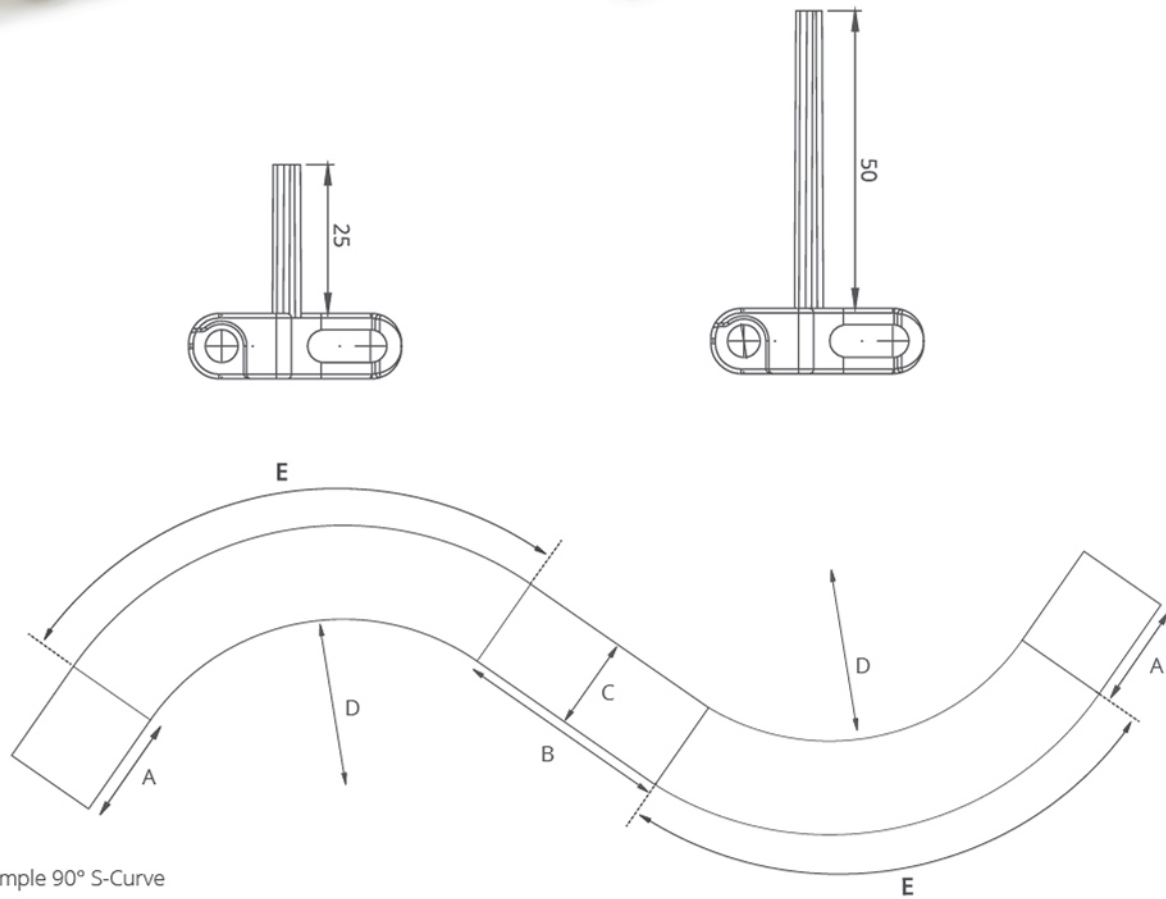
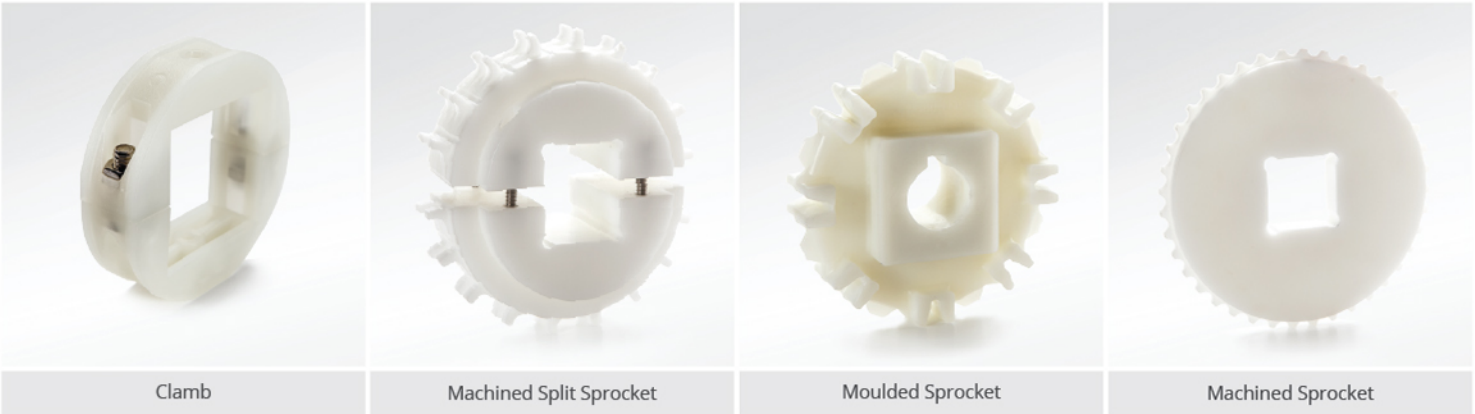
EC254 R Series Accessories and Technical Specifications



EC254 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	46.0	65.5	7.5 mm	33.5 mm	40.0 mm	25.0 / 30.0	-	EC254RSRZ8*PA
Z10	69.0	80.0	7.5 mm	33.5 mm	40.0 mm	25.0 / 30.0	EC254RSQZ10*PA	EC254RSRZ10*PA
Z12	78.5	98.0	7.5 mm	33.5 mm	40.0 mm	25.0 / 30.0	EC254RSQZ12*PA	EC254RSRZ12*PA
Z15	109.0	119.0	7.5 mm	33.5 mm	40.0 mm	25.0 / 30.0	EC254RSQZ15*PA	EC254RSRZ15*PA
Z20	143.0	163.0	7.5 mm	33.5 mm	40.0 mm	25.0 / 30.0	EC254RSQZ20*PA	EC254RSRZ20*PA

*Other sprockets and hub sizes are manufactured up to request. *POM (Acetal) and PP (Polypropylene) sprockets raw material is available on request.



Radius Belt Example 90° S-Curve

EC254 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

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

Mimimum inner radius = Collapse Factor x Belt width

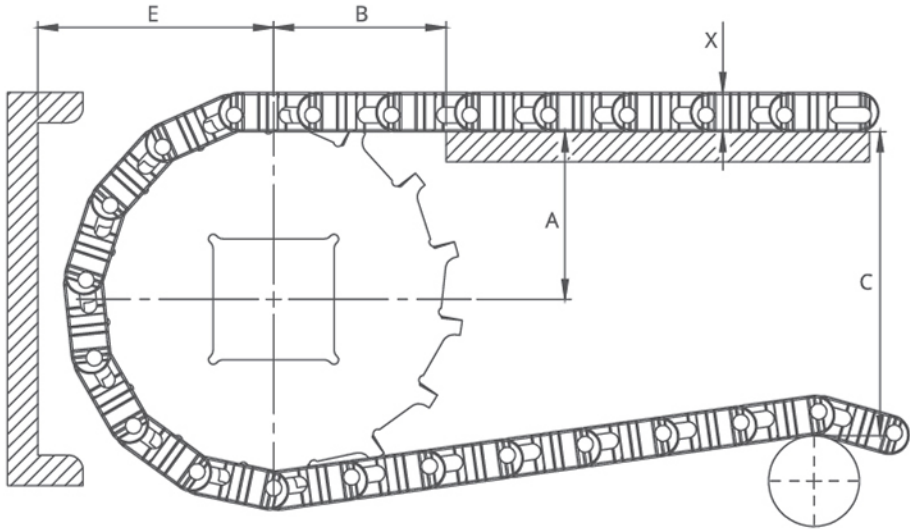
CALCULATION EXAMPLE

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

D: $394 \times 2.1 = 827 \text{ mm}$
A: 394 (Min.)
B: $2 \times 394 = 788 \text{ mm (Min.)}$
E: $\frac{(C+D) \times 3.14}{4} = 958 \text{ mm}$

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

EC254 R Series Engineering Information

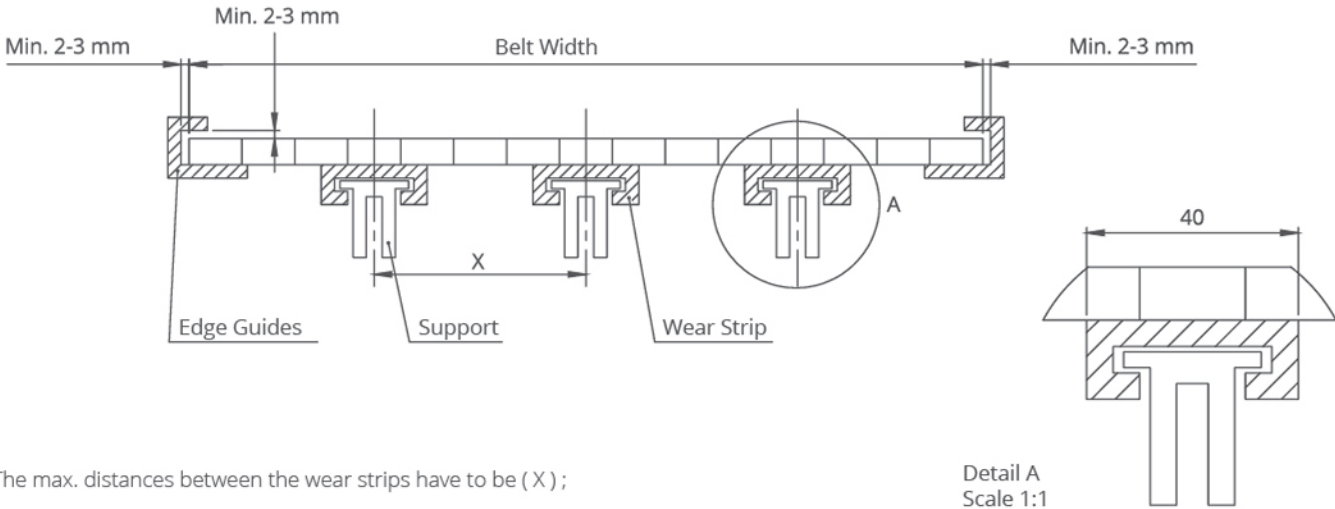


A - ± 0,031" (1mm) C - ± (Max.)
B - ± 0,125" (3mm) E - ± (Min.)

EC254 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								
EC254T R												
2,87	73	10	1,43	36,25	1,85	47	1,81	46	1,85	47	0,43	10,8
3,82	97	12	1,77	45	2,03	51,5	2,80	71	2,48	63	0,43	10,8
4,72	120	15	2,22	56,5	2,24	57	5,16	131	3,76	95,5	0,43	10,8

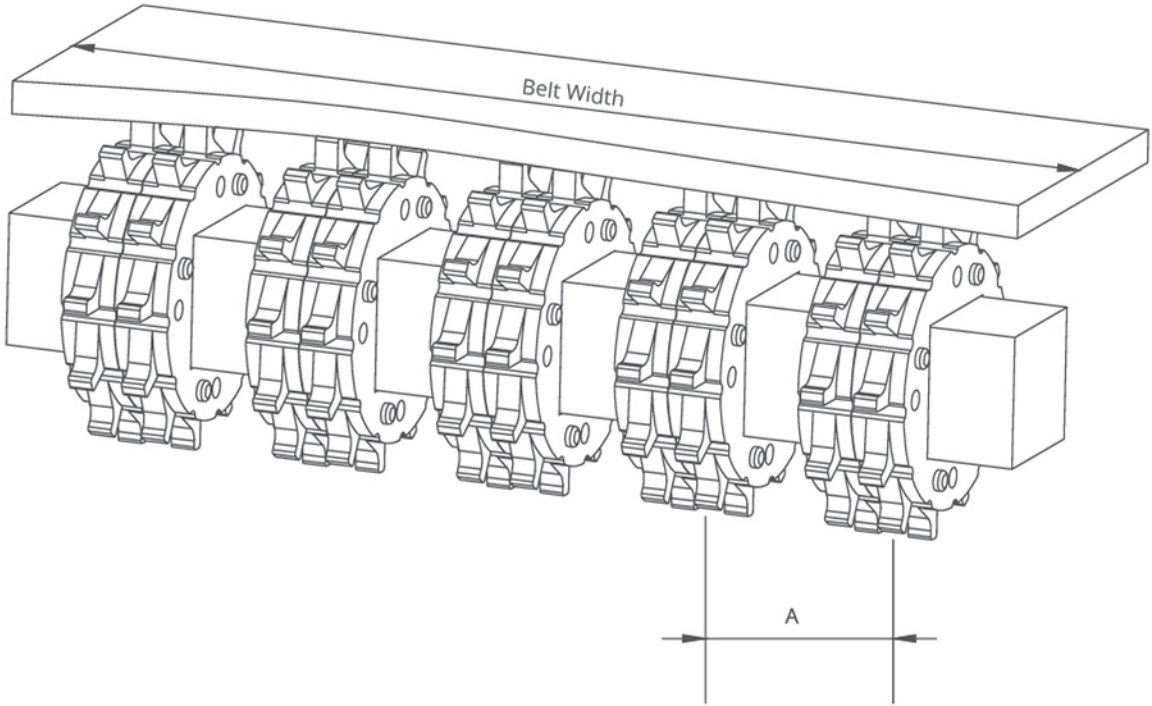
EC254 R Series / Slider Support System For Straight Running Belts



Not: The max. distances between the wear strips have to be (X) ;
125 mm for 2" belts
80 mm for 1" / 0.5" belts

Detail A
Scale 1:1

EC254 R Series Engineering Information



EC254 R Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
150	6	2	2	50/2	120/4,7
200	8	2	2	50/2	120/4,7
250	10	3	2	50/2	120/4,7
300	12	3	2	50/2	120/4,7
350	14	3	3	50/2	120/4,7
400	16	4	3	50/2	120/4,7
450	18	4	3	50/2	120/4,7
500	20	5	4	50/2	120/4,7
550	22	5	4	50/2	120/4,7
600	24	6	5	50/2	120/4,7
700	26	7	5	50/2	120/4,7
800	28	8	6	50/2	120/4,7
900	30	9	7	50/2	120/4,7
1000	32	10	7	50/2	120/4,7

Note: Number of sprockets depends on the belt load.