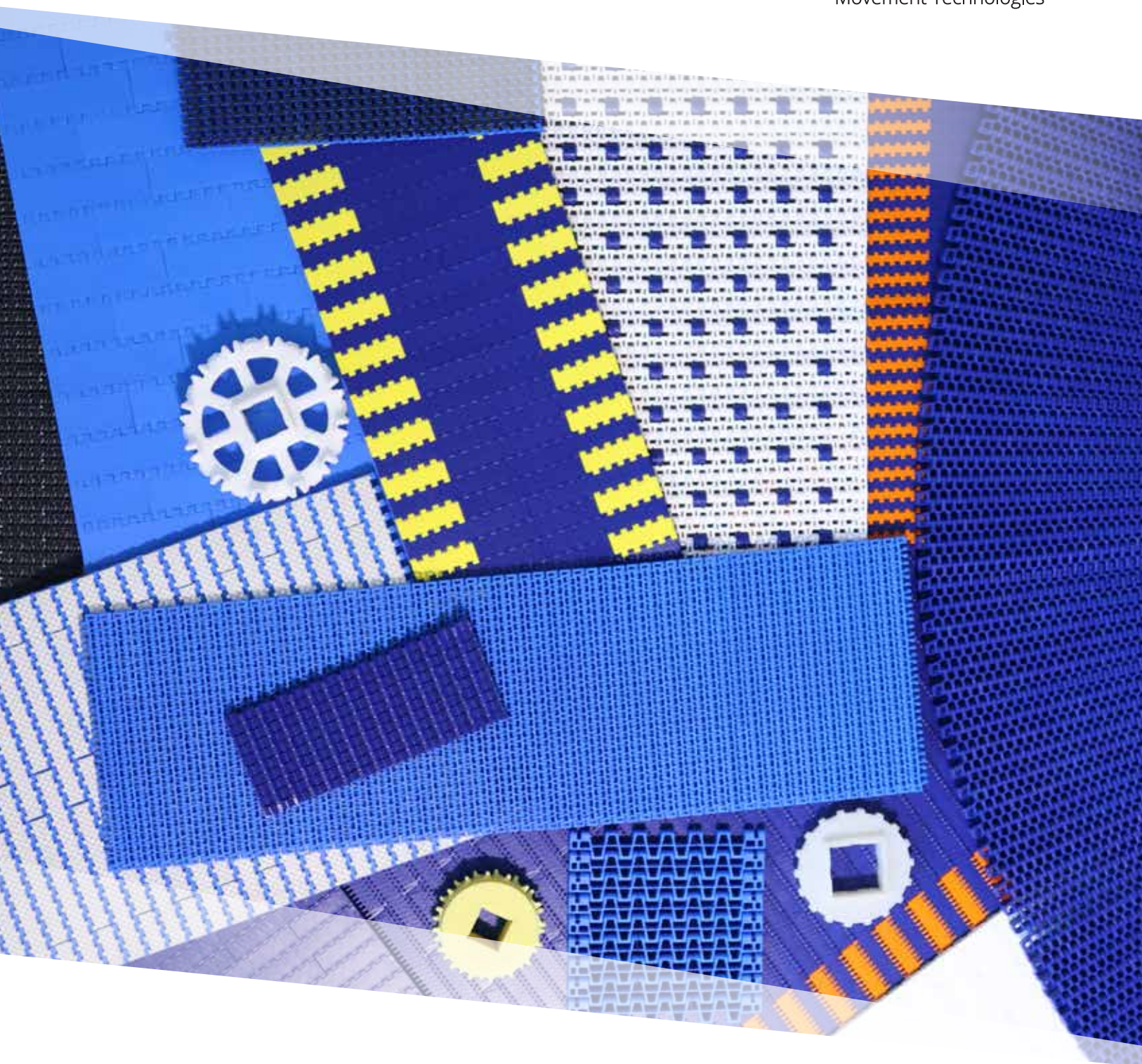




MODUTECH[®]
Movement Technologies



Modular Belt Product Catalog

2026



BELTSERVICE
CORPORATION

beltservice.com

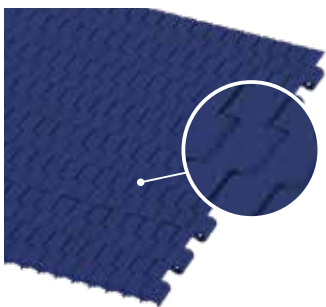


Not all products, materials, colors, accessories (flights, sideguards, etc.)
or sprockets (sizes/bores) are guaranteed to be in stock and
may have extended lead times.

Please check with Beltservice Corporation for local availability.

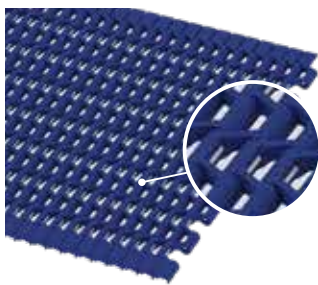
beltservice.com

0,3 Inch - 8mm Micropitch Belt Series:



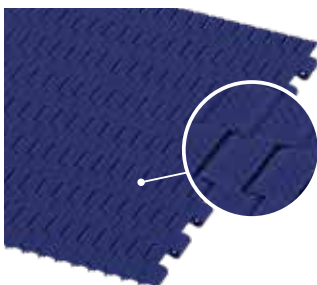
MP80 C
Micropitch Belt Series

32-33



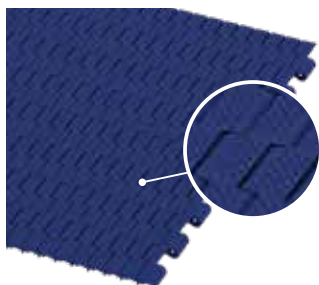
MP80 FG
Micropitch Belt Series

34-35



MP80 NS
Micropitch Belt Series

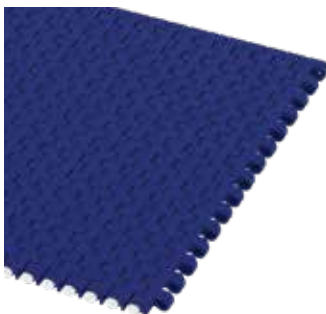
36-37



MP80 NP
Micropitch Belt Series

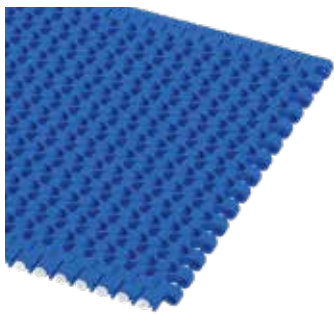
38-39

0,5 Inch - 12,7mm Modular Belt Series:



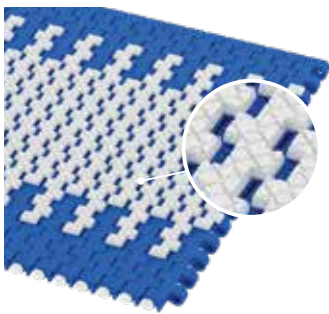
EC127 C

46-47



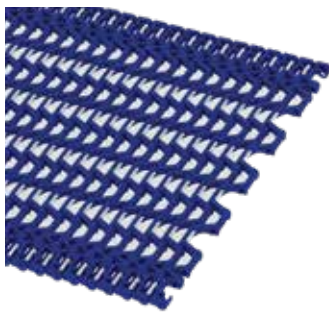
EC127 FG

48-49



EC127 GT

50-51



MD127 GAP50%

58-59



MD127 GAP50% FE

60



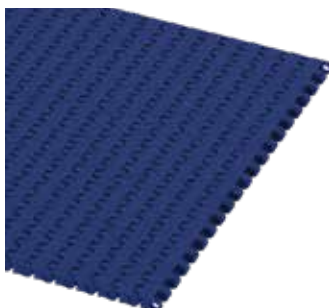
HC127 C

66-67



HC127 BLB

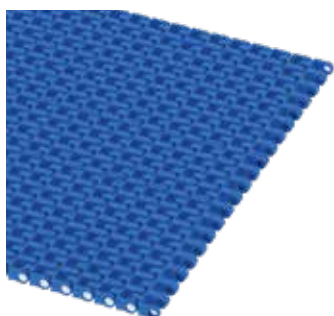
68-69



SM127 C

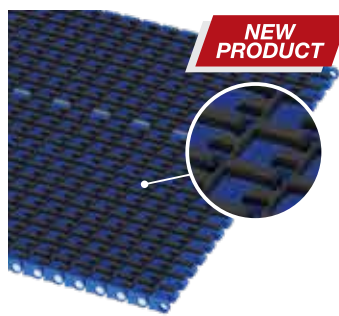
74-75

0,5 Inch - 12,7mm Modular Belt Series:



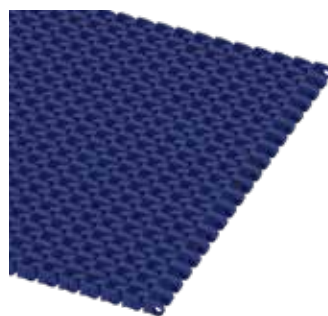
SM127 FG

76-77



SM127 FG -GT

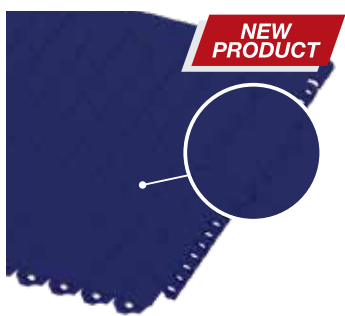
78-79



SM127 CRV

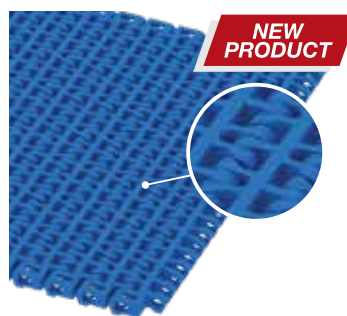
80-81

0,6 Inch - 15,2mm Modular Belt Series:



HC152 C

86-87



HC152 FG

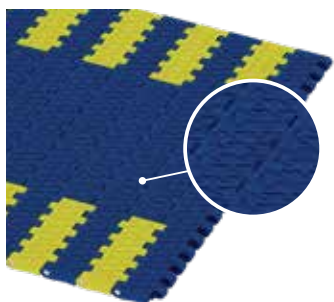
88-89



HC152 FG - GT

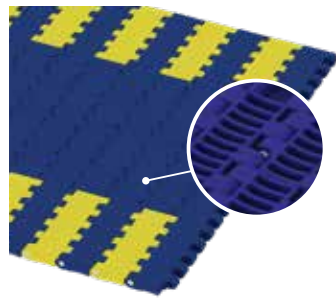
90-91

1inch - 25,4mm Corrugated Belt Series:



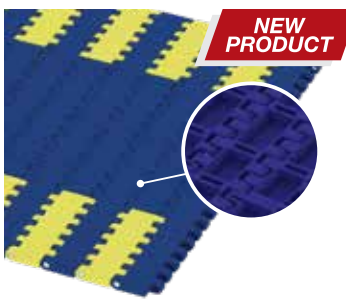
XP254 EVO CR
Corrugated & Logistic
Belt Series

98-99



XP254 EVO FLT
Corrugated & Logistic
Belt Series

100-101



XP254 Q FLT
Corrugated & Logistic
Belt Series

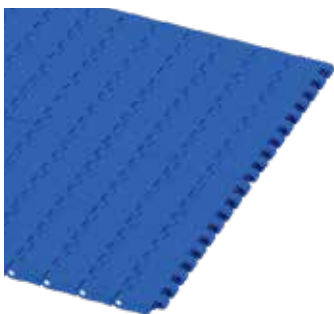
102-103



XP254 LCR
Corrugated & Logistic
Belt Series

104-105

1inch - 25,4mm Modular Belt Series:



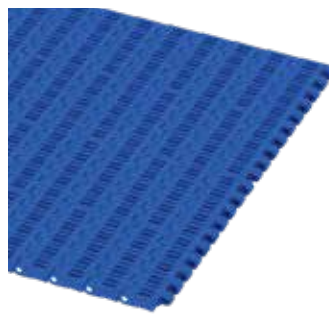
XP254 C

112-113



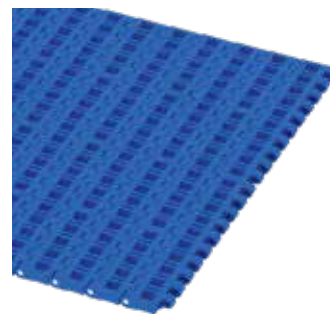
XP254 PR4%

114-115



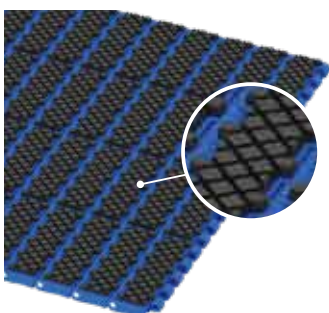
XP254 PR22%

116-117



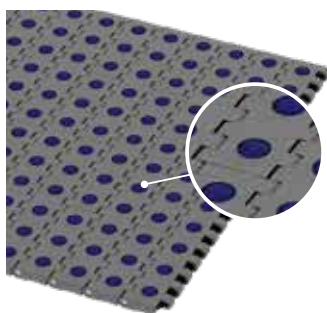
XP254 FG

118-119



XP254 GT

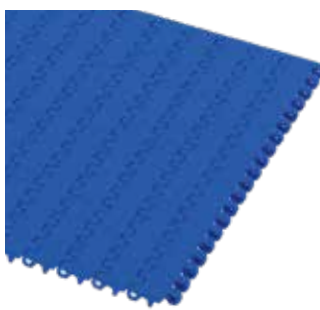
120-121



XP254 BT

*This product is not available in the following countries: Italy, Germany, Great Britain, the Netherlands and Spain.

122-123



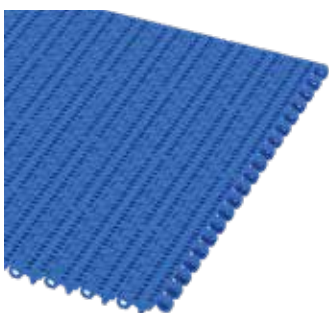
EC254 C

130-131



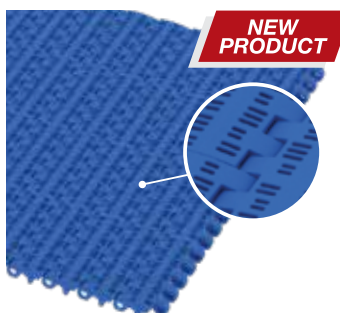
EC254 GT

132-133



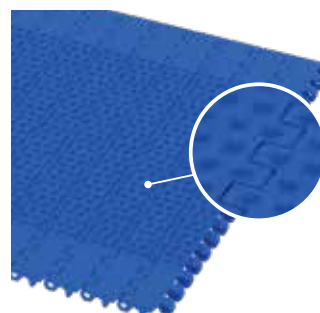
EC254 PR16%

134-135



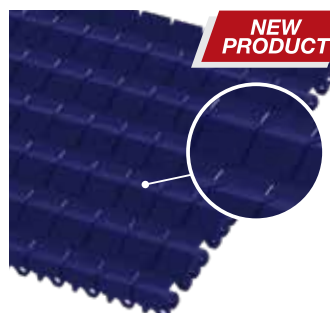
EC254 CRV22%

136-137



EC254 NT

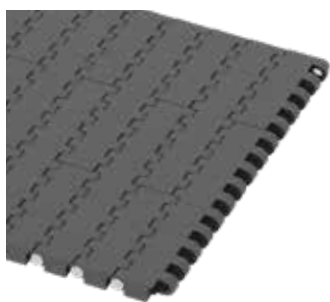
138-139



EC254 NUT

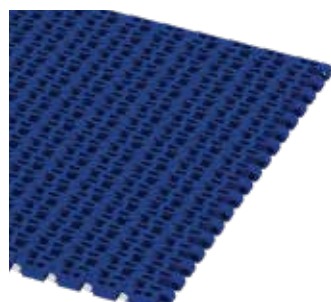
140-141

1inch - 25,4mm Modular Belt Series:



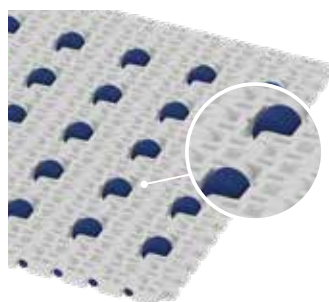
HD254 C

148-149



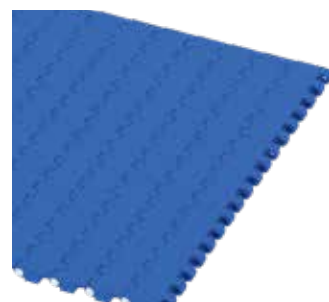
MD254 FG

154-155



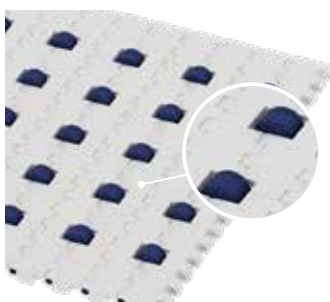
MD254 FG-RT

156-157



MD254 C

158-159



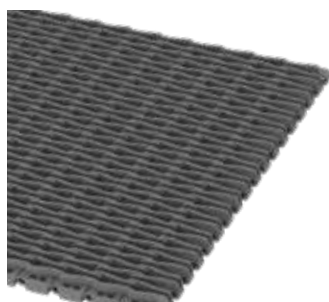
MD254 C-RT

160-161



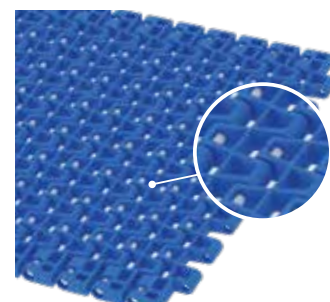
MD254 GT

162-163



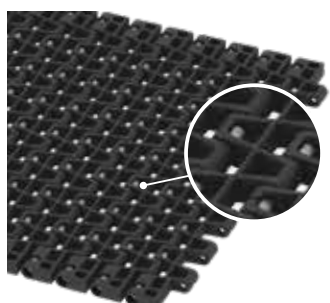
MD254 RR

164-165



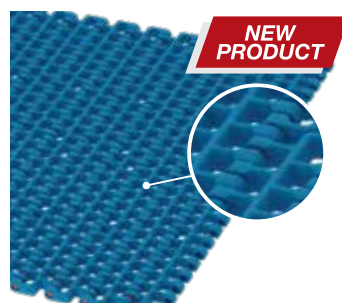
MD254 GAP48%

166-167



**MD254
GAP48%-EHT**

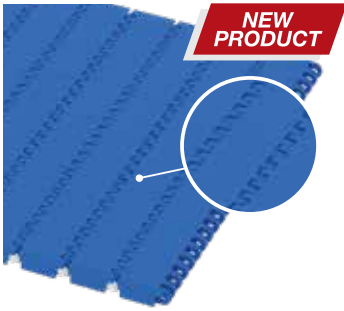
168-169



SM254 FG50%

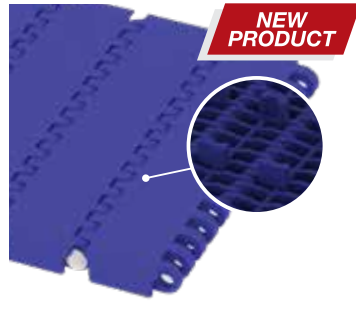
178-179

1,07 Inch - 27,2mm Modular Belt Series:



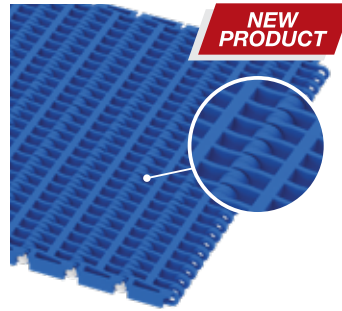
HC272 C

184



HC272 C-PT

185



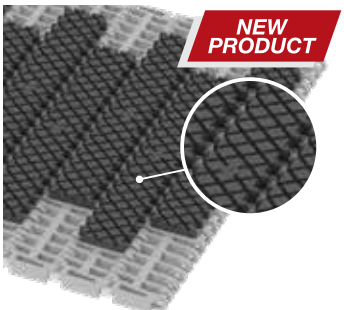
HC272 FG

186



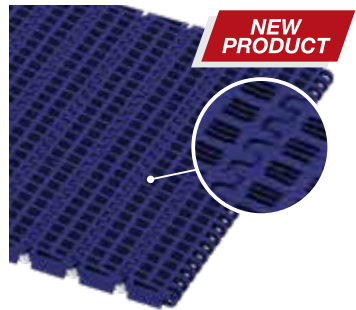
HC272 FG-PT

187



HC272 GT

188



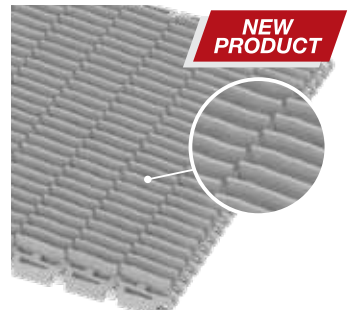
HC272 MT

189



HC272 OG

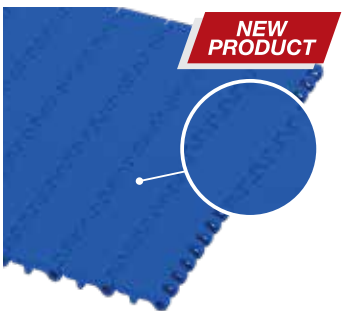
190



HC272 RR

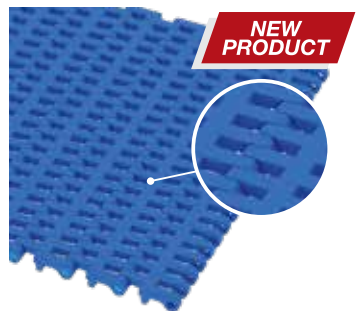
191

1,5 Inch - 38,1mm Modular Belt Series



EC381 C

198



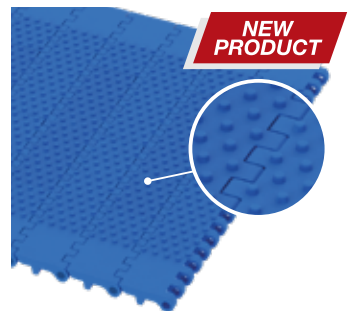
EC381 FG

199



EC381 PR22

200



EC381 NT

201

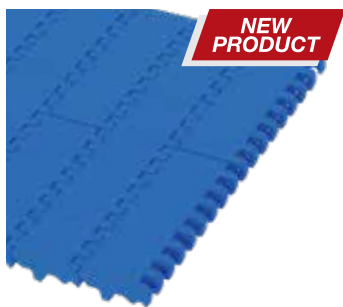
1,57 Inch - 40mm Modular Belt Series:



MD400 FG
Battery Belt

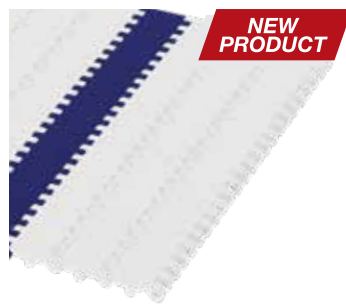
208-209

2 Inch - 50,8mm Modular Belt Series:



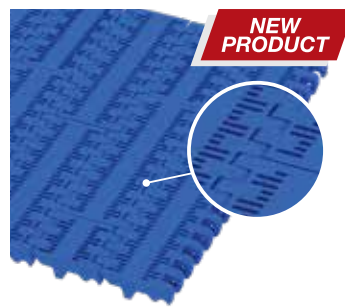
HC508 C

214-215



HC508 C-MTW

216-217



HC508 PR22

218-219



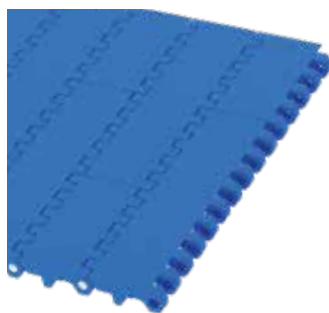
HC508 NT

220-221



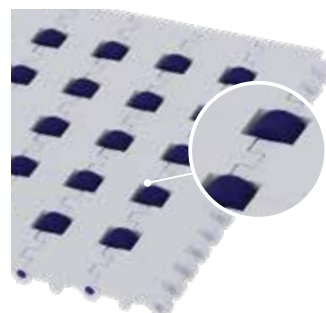
HC508 MR

222-223



EC508 C

230-231



EC508 C-RT

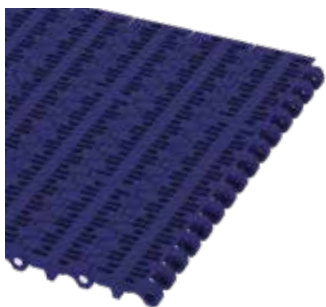
232-233



EC508 GT

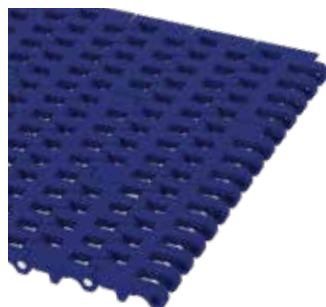
234-235

2 Inch - 50,8mm Modular Belt Series:



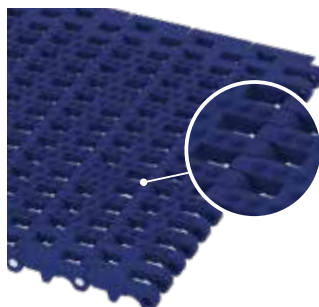
EC508 PR22%

236-237



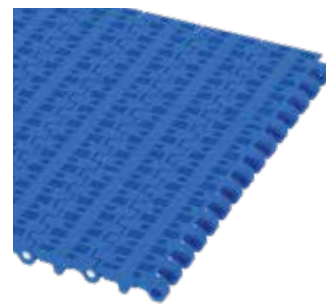
EC508 FG

238-239



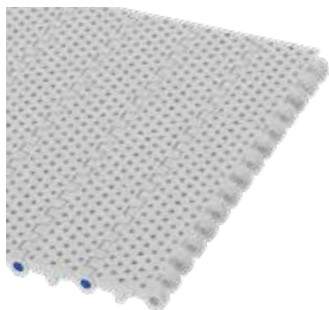
EC508 FG-NT

240-241



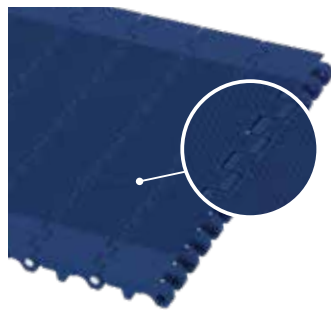
EC508 PR11%

242-243



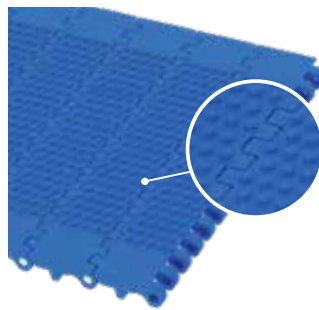
EC508 PR13%

244-245



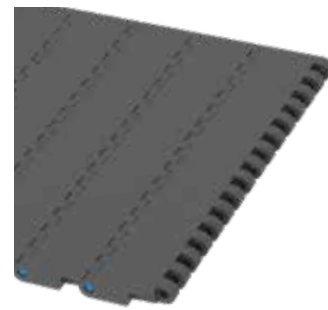
EC508 DT

246-247



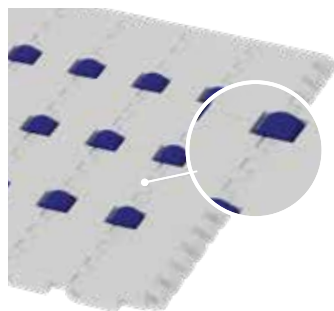
EC508 NT

248-249



MD508 C

256-257



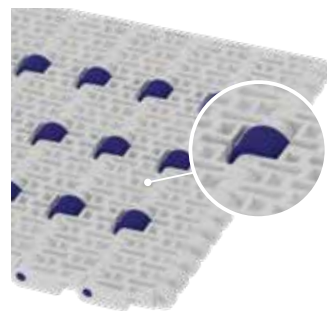
MD508 C-RT

258-259



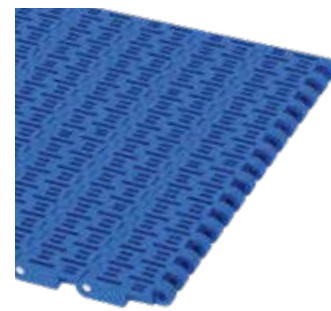
MD508 FG

260-261



MD508 FG-RT

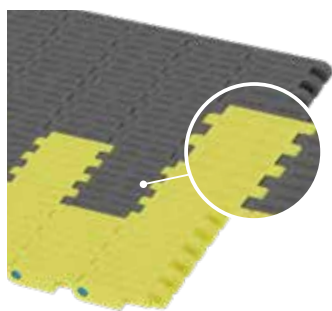
262-263



MD508 PR25%

264-265

2 Inch - 50,8mm Modular Belt Series:



MD508 NS

266-267



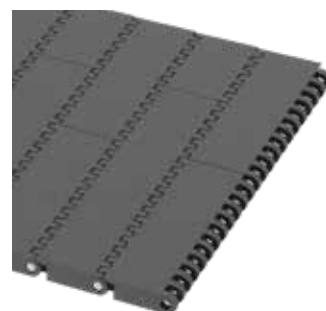
HP508 RR

274-275



HP508 FG
Battery Belt

276-277



HP508 C

278-279

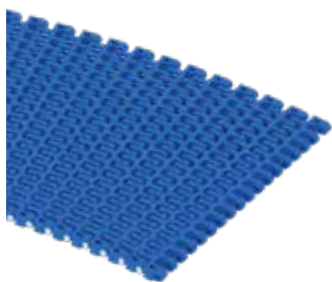
2,5 Inch - 63,5mm Modular Belt Series:



HD635 C

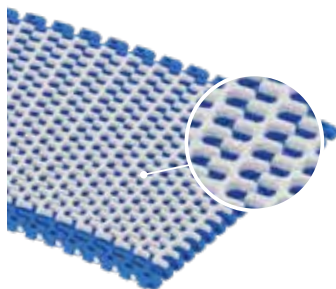
286

Sideflexing/Radius Modular Belt Series:



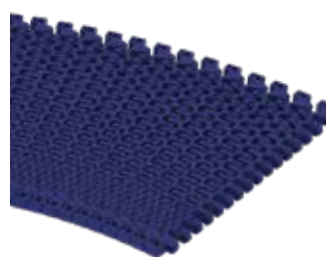
EC254 R
Radius Belt 2,1

292-293



EC254 R-GT
Radius Belt 2,1 with
friction surface

294-295



EC254T R
Tight Radius Belt 1,4

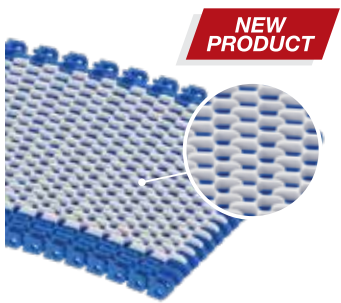
300-301



HC254 R
Radius Belts 2,2

306-307

Sideflexing/Radius Modular Belt Series:



HC254 R-GT
Radius Belts 2,2

308-309



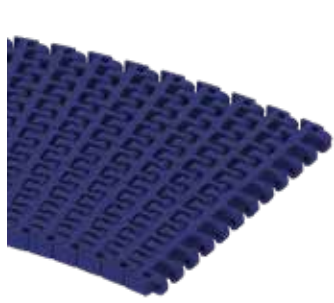
HC254 R-LD
Radius Belts 2,2

310-311



HC254 R-HID-LD
Radius Belts 2,2

312-313



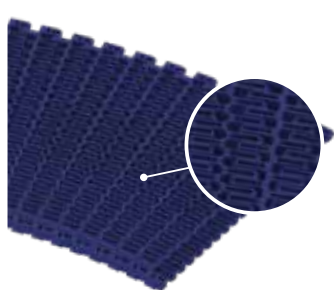
EC381 R
Radius Belt

320-321



EC508 R
Radius Belt 2,1

328-329



EC508T R
Tight Radius Belt 1,5

336-337

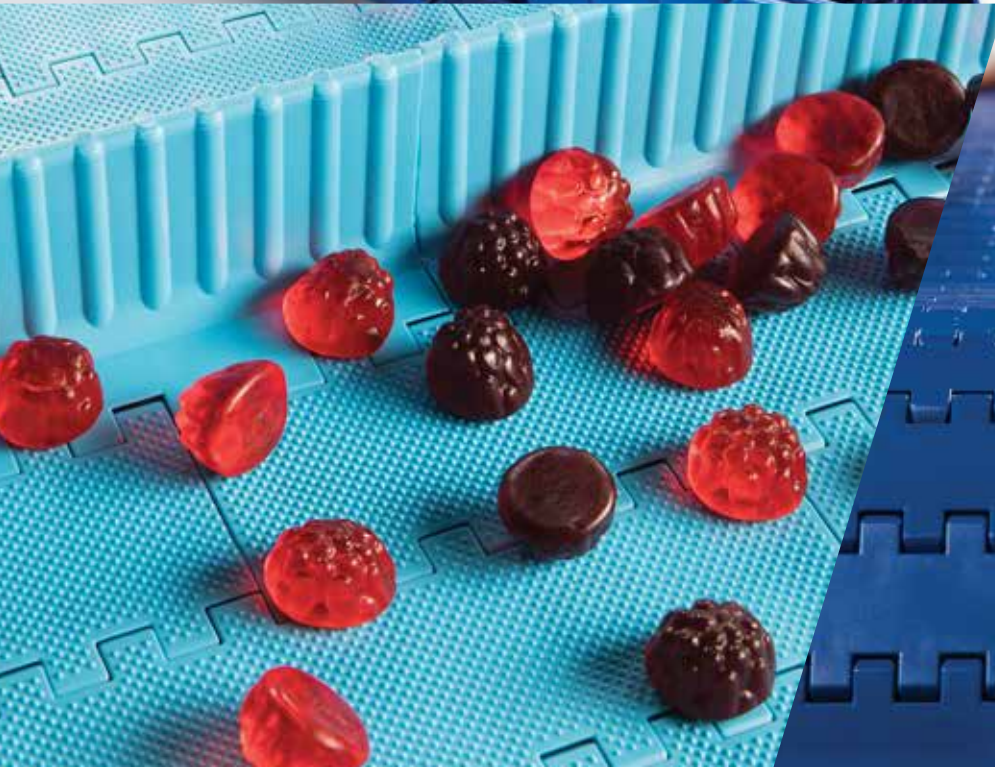
**Engineering
Guide**

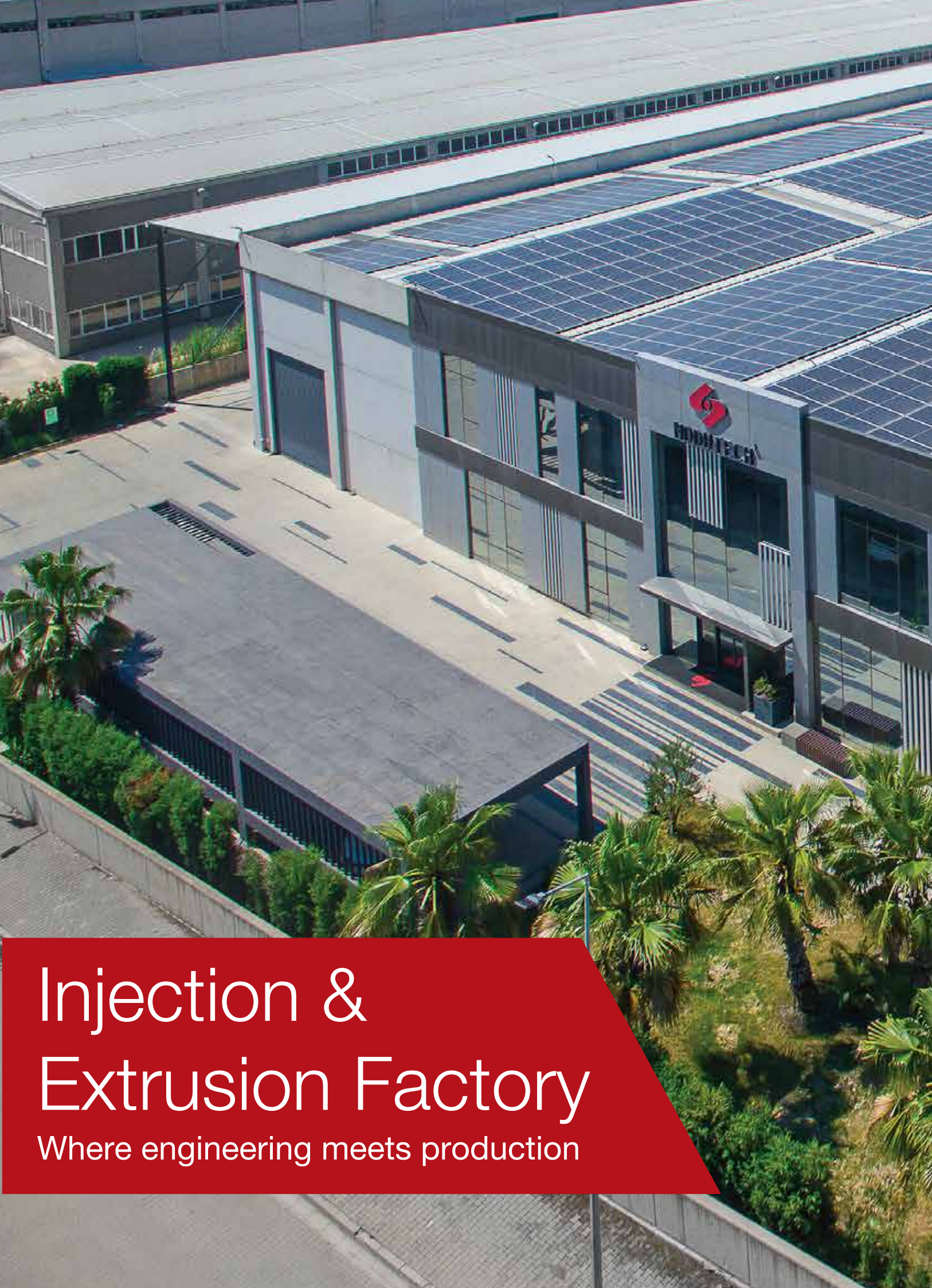
344-363

**Declarations &
Certificates**

364-365

Index





Injection & Extrusion Factory

Where engineering meets production



Engineered To Keep Industry Moving

Every production line depends on reliable movement.

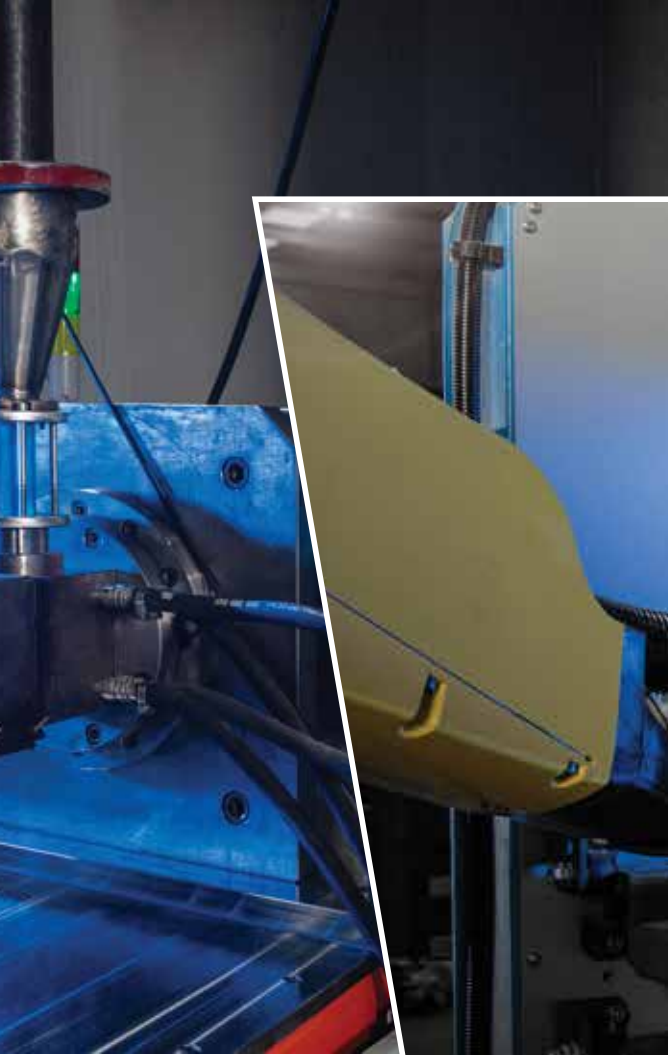
At Modutech, we develop and manufacture modular plastic conveyor belts, sprockets and conveyor components engineered for demanding industrial applications.

With modern production facilities, advanced engineering capabilities and a continuously expanding product portfolio, we provide solutions trusted by customers in more than 90 countries.

From food processing to packaging and industrial automation, every product is designed to deliver hygienic operation, long service life and dependable performance.

Because every line needs more than movement.
It needs confidence.



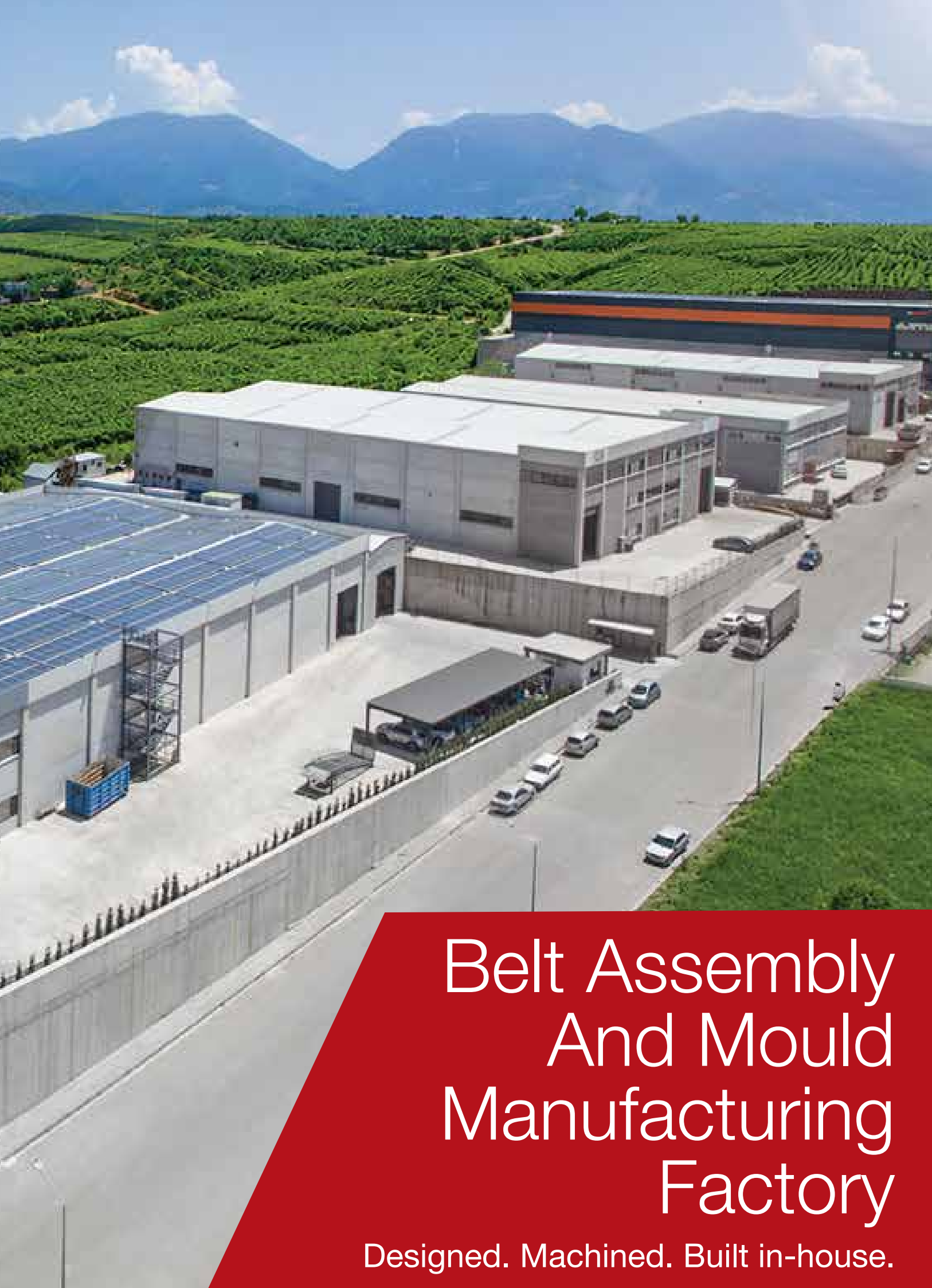




**One Of The Widest Modular
Belt Range In The Industry!**







Belt Assembly And Mould Manufacturing Factory

Designed. Machined. Built in-house.

Assembly Center & Warehouse

Every belt is assembled, inspected and prepared for shipment under controlled production standards.

Our integrated assembly and warehouse operations allow fast order processing, flexible production planning and dependable global deliveries.

Large inventory capacity helps us respond quickly to standard and customized requirements.







Mould Manufacturing

Every successful conveyor belt starts with precision.

Our in-house moulding department develops and manufactures moulds using advanced CNC machining, EDM technology and high precision measurement systems.

Complete control over mould production enables shorter development cycles, consistent product quality and continuous innovation across our modular belt range.

From concept to production, every detail is engineered to deliver reliable performance.







Modutech Belting GmbH

Germany Service & Distribution Center



Strategically located in Rhine-Main-Region, Germany, Modutech Belting GmbH serves as our Germany Service & Distribution Center, providing dedicated sales support, technical assistance and local logistics for Germany, Austria and Switzerland.

With local inventory and responsive customer service, we ensure shorter lead times, efficient deliveries and close cooperation with OEMs, distributors and end users.

By combining regional support with Modutech's global manufacturing capabilities, we deliver reliable solutions with the speed and flexibility our customers expect



Warehouse



MODUTECH[®]
GmbH Movement Technologies



MP80

Micro Pitch Modular Belt Series

MP80 C

MP80 FG

MP80 NS / Non-Slip

MP80 NP / Negative Pyramide

Sprockets

Engineering Information





MP80 C

Micro Pitch Modular Belt Series

- **Bakery Applications**

Raw 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

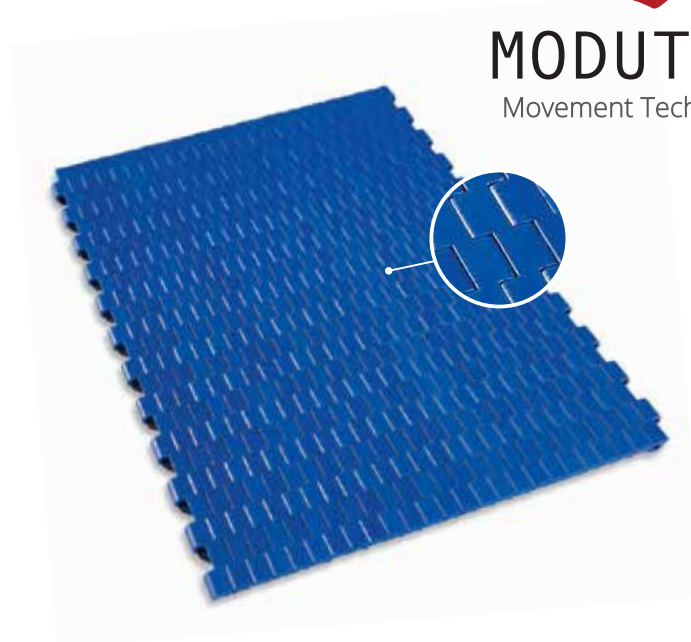
- **Beverage Applications**

Box Transfer



MODUTECH[®]
Movement Technologies

MP80 C



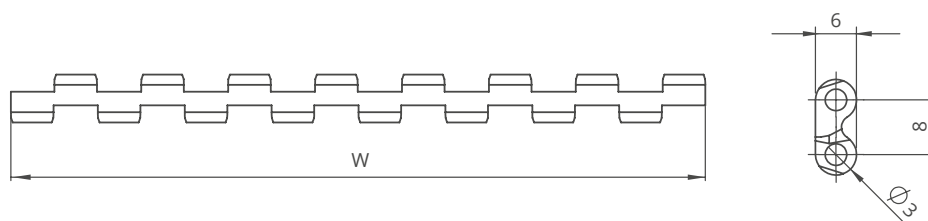
Pitch:	8 mm / 0.315 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	101,6 mm / 4 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø3 mm / 0.118 inch
Approved:	FDA and EU
Color:	Blue
Cleanability:	Good
Min. Nosebar Diameter:	6 mm / 0.236 inch

MP80 C Technical Information

Belt Material		POM	POM
Pin Material		PA	POM
Belt Strength	N/m lb/ft	2750 - 188	2750 - 188
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	5.4 / 1.11	5.4 / 1.11

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
6	0.24	50	2	50	2	-	-	-	-

Belt Width mm	101,6	203,2	304,2	406,4	508,0	609,6	711,2	812,8	914,4	1016,0	1117,6	1219,2	1320,8	1422,4	1524,0	1625,6	1727,2
Belt Width inch	4.00	8.00	12.00	16.00	20.00	24.00	28.00	32.00	36.00	40.00	44.00	48.00	52.00	56.00	60.00	64.00	68.00
Belt Width mm	1828,8	1930,4	2032,0	2133,6													
Belt Width inch	72.00	76.00	80.00	84.00													

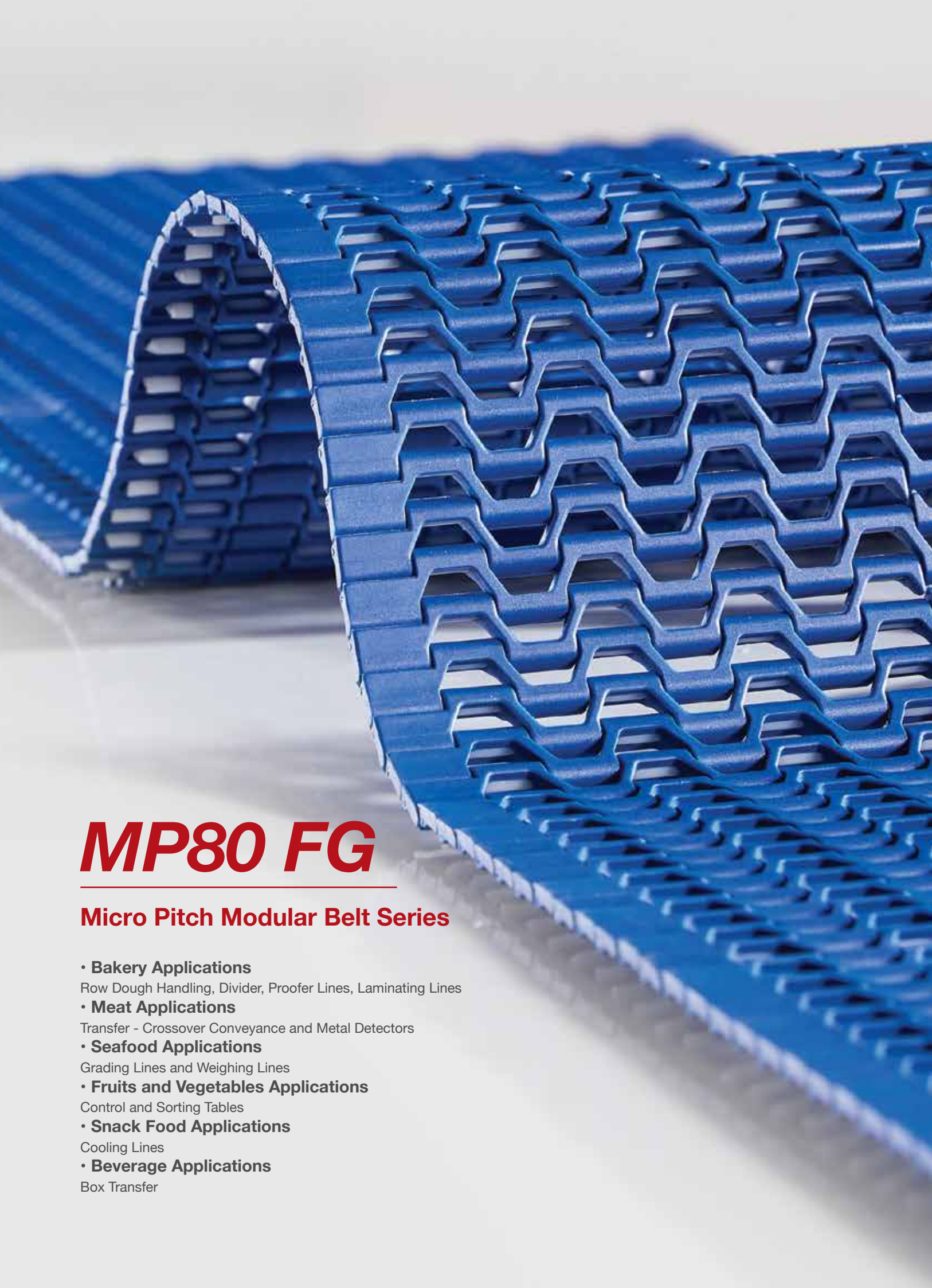


Product Features and Functional Benefits

- Micro pitch series with small transfer gaps for tight transfer.
- 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.
- Designed to run over nosebars/knife edges or rollers.
- 200 mm molded self-lock pins available.

Important Notes

- Standard belt increments 101,6 mm.
- Non-standard belt increments 25,4 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -2 mm to 1 mm and -0.35% to 0% for wider belts.



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

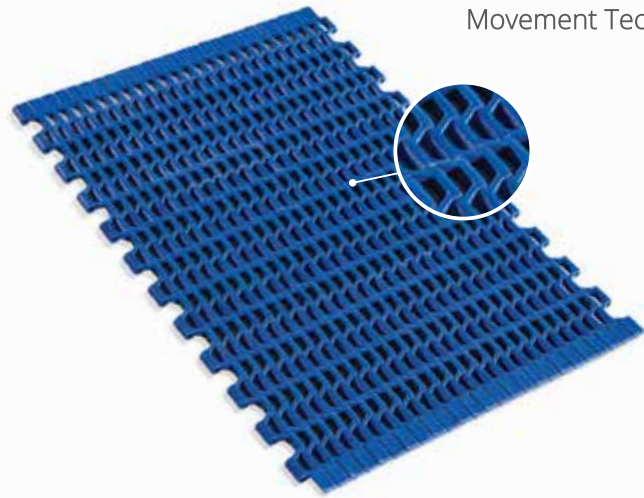
- **Beverage Applications**

Box Transfer

MP80 FG



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Movement Technologies



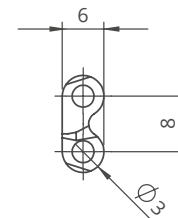
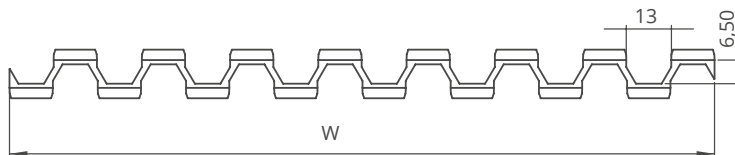
Pitch:	8 mm / 0.315 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	101,6 mm / 4 inch
Open Area (%):	34%. (Biggest opening 6,5 x 13 mm)
Flight:	No
Sidewall:	No
Pin:	Ø3 mm / 0.118 inch
Approved:	FDA and EU
Color:	Blue
Cleanability:	Good
Min. Nosebar Diameter:	6 mm / 0.236 inch

MP80 FG Technical Information

Belt Material		POM	POM	PA
Pin Material		PA	POM	PA
Belt Strength	N/m lb/ft	2650 - 181	2650 - 181	2650 - 181
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-46 / +150 -46 / +302
Belt Weight	kg/m² lb/sqft²	4.4 / 0.9	4.4 / 0.9	4.4 / 0.9

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
6	0.24	50	2	50	2	-	-	-	-

Belt Width mm	101,6	203,2	304,2	406,4	508,0	609,6	711,2	812,8	914,4	1016,0	1117,6	1219,2	1320,8	1422,4	1524,0	1625,6	1727,2
Belt Width inch	4.00	8.00	12.00	16.00	20.00	24.00	28.00	32.00	36.00	40.00	44.00	48.00	52.00	56.00	60.00	64.00	68.00
Belt Width mm	1828,8	1930,4	2032,0	2133,6													
Belt Width inch	72.00	76.00	80.00	84.00													



Product Features and Functional Benefits

- Micro pitch series with small transfer gaps for tight transfer.
- Designed to run over nosebars/knife edges or rollers.
- 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.
- 200 mm molded self-lock pins available.

Important Notes

- Standard belt increments 101,6 mm.
- Non-standard belt increments 25,4 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.



MP80 NS

Micro Pitch Modular Belt Series

- **Bakery Applications**

Raw 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

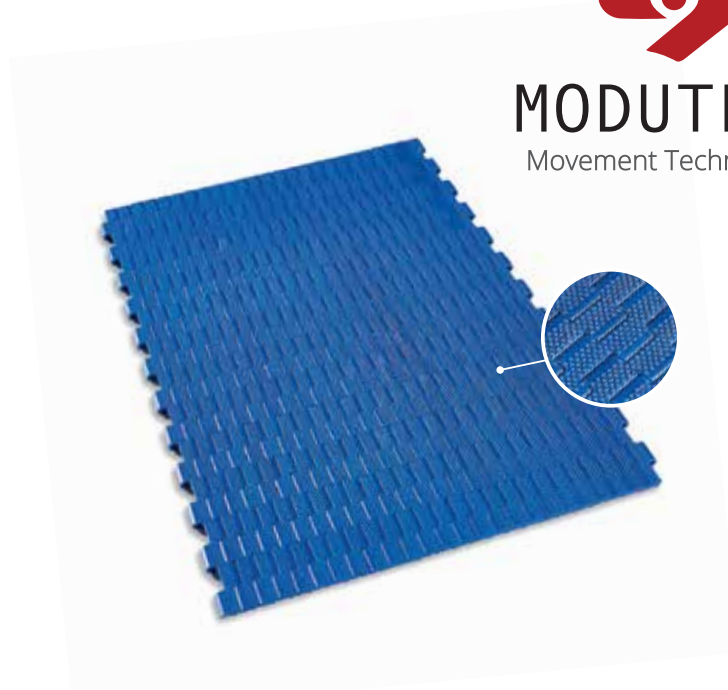
- **Beverage Applications**

Box Transfer



MODUTECH®
Movement Technologies

MP80 NS



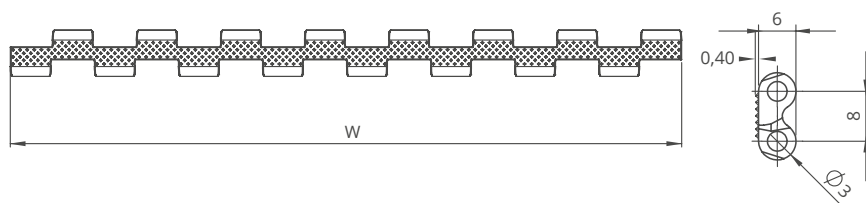
Pitch:	8 mm / 0.315 inch
Belt Surface:	Close, Non-Slip Surface
Minimum Width:	101,6 mm / 4 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø3 mm / 0.118 inch
Approved:	FDA and EU
Color:	Blue
Cleanability:	Good
Min. Nosebar Diameter:	6 mm / 0.236 inch

MP80 NS Technical Information

Belt Material		POM	POM
Pin Material		PA	POM
Belt Strength	N/m lb/ft	2750 - 188	2750 - 188
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	5.4 / 1.11	5.4 / 1.11

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
6	0.24	50	2	50	2	-	-	-	-

Belt Width mm	101,6	203,2	304,2	406,4	508,0	609,6	711,2	812,8	914,4	1016,0	1117,6	1219,2	1320,8	1422,4	1524,0	1625,6	1727,2
Belt Width inch	4.00	8.00	12.00	16.00	20.00	24.00	28.00	32.00	36.00	40.00	44.00	48.00	52.00	56.00	60.00	64.00	68.00
Belt Width mm	1828,8	1930,4	2032,0	2133,6													
Belt Width inch	72.00	76.00	80.00	84.00													

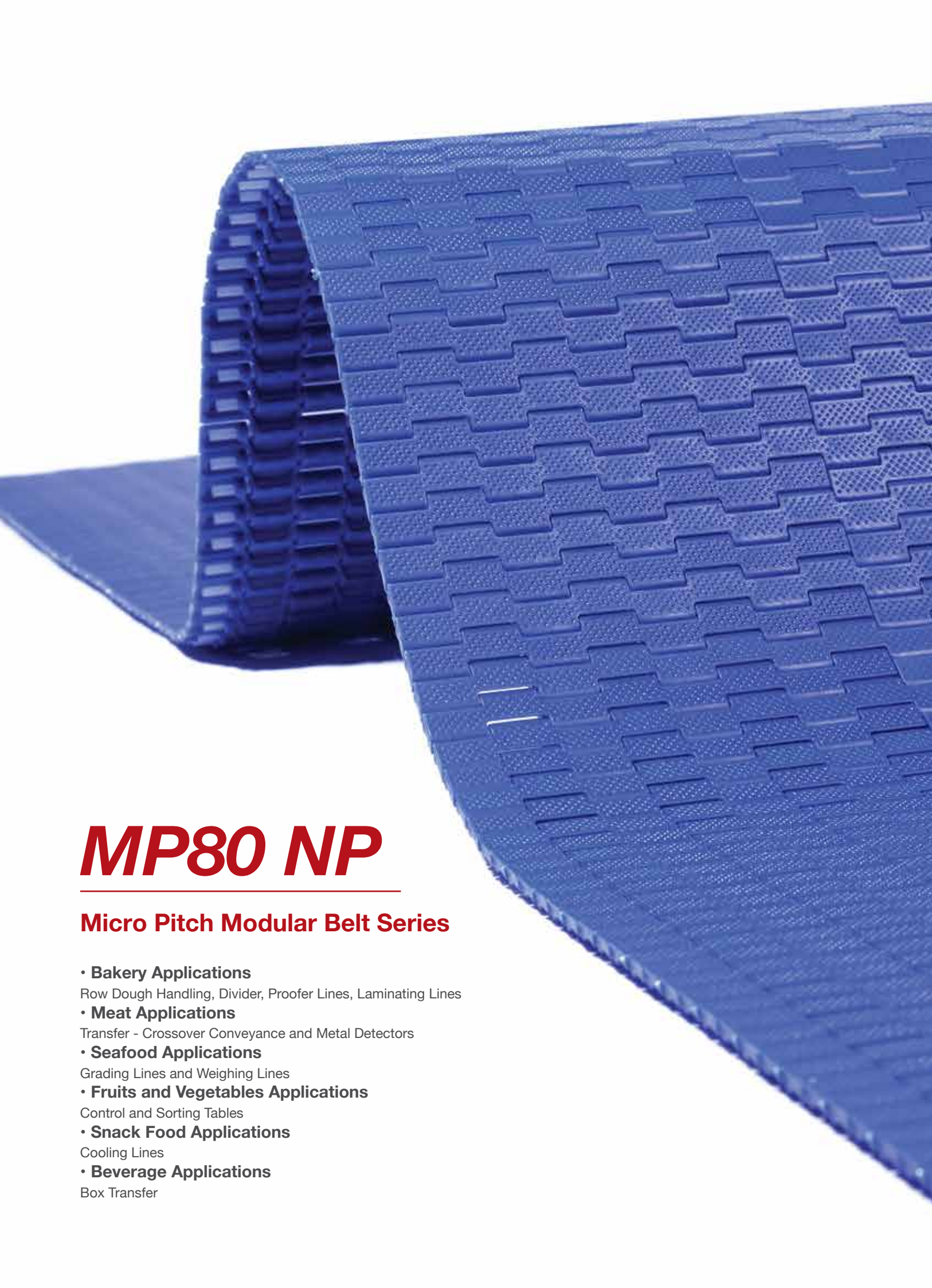


Product Features and Functional Benefits

- 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.
- 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.
- 200 mm molded self-lock pins available.

Important Notes

- Standard belt increments 101,6 mm.
- Non-standard belt increments 25,4 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -2 mm to 1 mm and -0.35% to 0.1% for wider belts.



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**

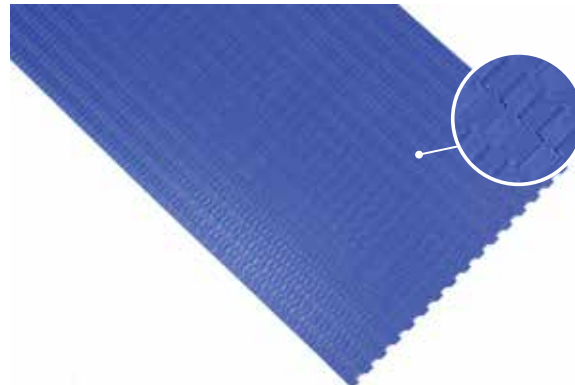
Cooling Lines

- **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
Pin:	Ø3 mm / 0.118 inch
Approved:	FDA and EU
Color:	Blue
Cleanability:	Good
Min. Nosebar Diameter:	6 mm / 0.236 inch

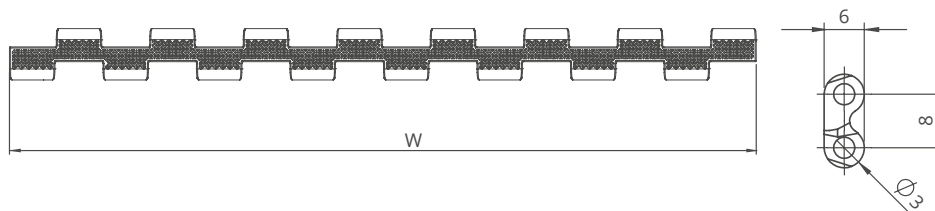


MP80 NP Technical Information

Belt Material		POM	POM
Pin Material		PA	POM
Belt Strength	N/m lb/ft	2750 - 188	2750 - 188
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	5.4 / 1.11	5.4 / 1.11

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
6	0.24	50	2	50	2	-	-	-	-

Belt Width mm	101,6	203,2	304,2	406,4	508,0	609,6	711,2	812,8	914,4	1016,0	1117,6	1219,2	1320,8	1422,4	1524,0	1625,6	1727,2
Belt Width inch	4.00	8.00	12.00	16.00	20.00	24.00	28.00	32.00	36.00	40.00	44.00	48.00	52.00	56.00	60.00	64.00	68.00
Belt Width mm	1828,8	1930,4	2032,0	2133,6													
Belt Width inch	72.00	76.00	80.00	84.00													



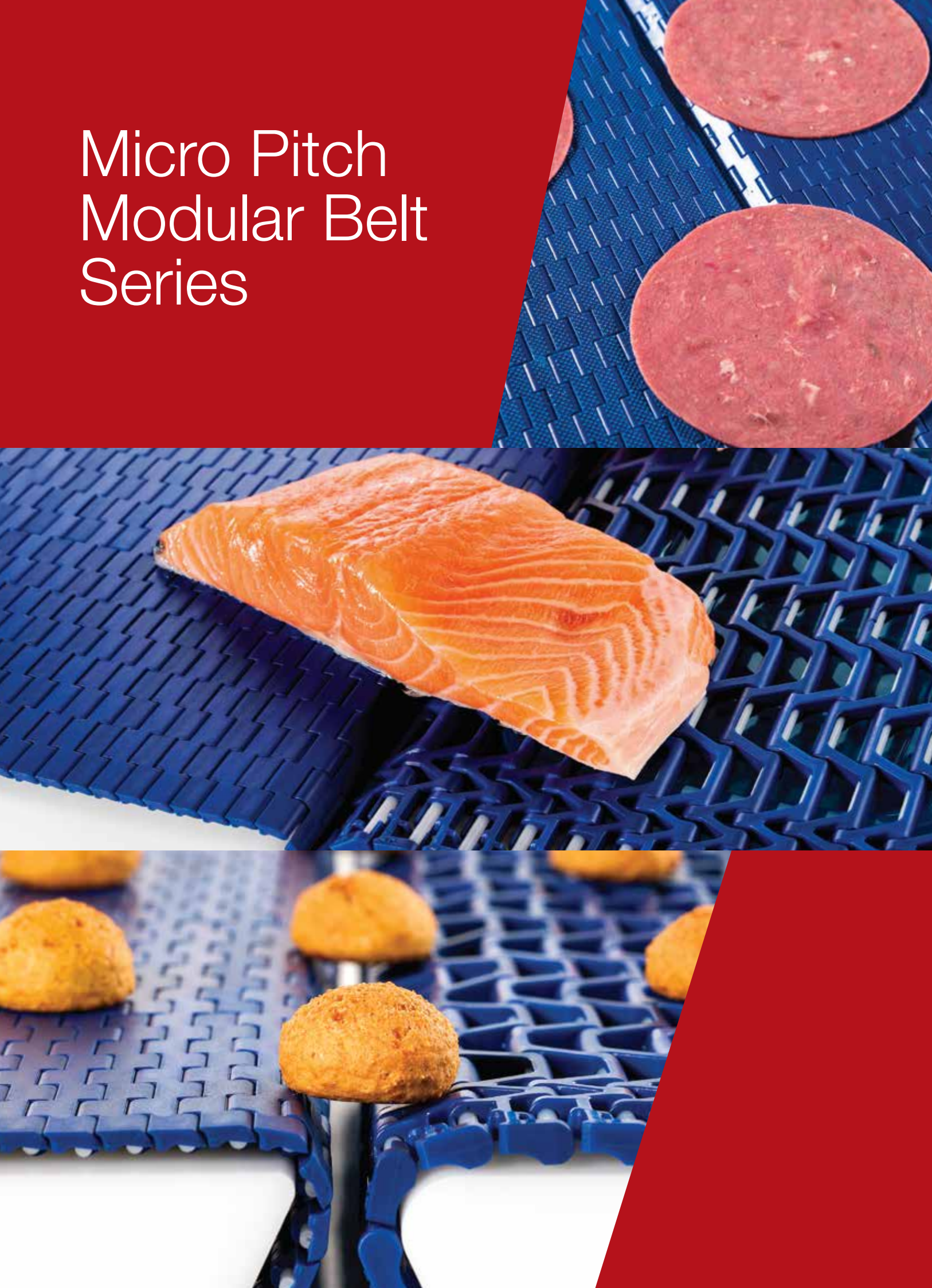
Product Features and Functional Benefits

- 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.
- 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.
- 200 mm molded self-lock pins available.

Important Notes

- Standard belt increments 101,6 mm.
- Non-standard belt increments 25,4 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -2 mm to 1 mm and -0.35% to 0.1% for wider belts.

Micro Pitch Modular Belt Series



MP80 (Micro Pitch Series)

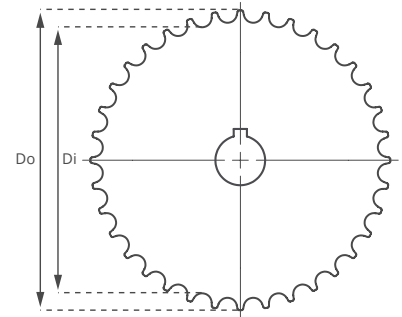
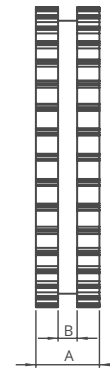
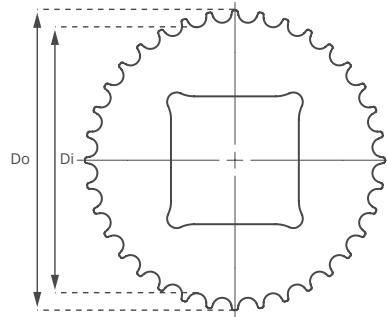
Technical Specifications



MODUTECH[®]
Movement Technologies



Z36



MP80 Micro Pitch Series / Machined Sprocket Dimensions

NO. TEETH	Di mm/inch	Do mm/inch	B mm/inch	A mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z18	40,9 / 1.61	48,0 / 1.89	6,0 / 0.23	20 / 0.78	20	-	20-25	1	MP80SQZ18	MP80SRZ18
Z24	56,4 / 2.22	63,7 / 2.51	6,0 / 0.23	20 / 0.78	25-30	1-1.25	25-30	1-1.25	MP80SQZ24	MP80SRZ24
Z36	87,5 / 3.44	94,9 / 3.74	6,0 / 0.23	20 / 0.78	40	1.5	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 available for each size.

*Drum motor sprockets are available upon request.



**Tight
Transfer**

**Precise transfer even the
smallest products!**

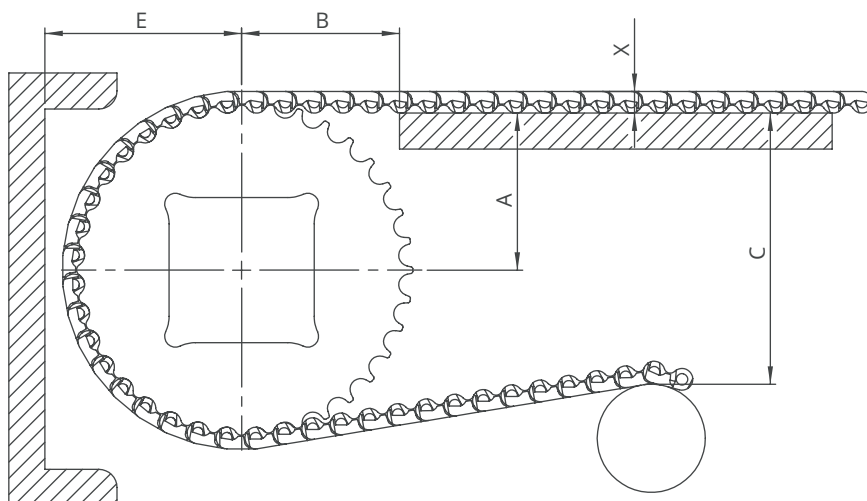
Micropitch belt series are suitable
to run 6 mm nosebar roller.



MP80 Series

Engineering Information

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

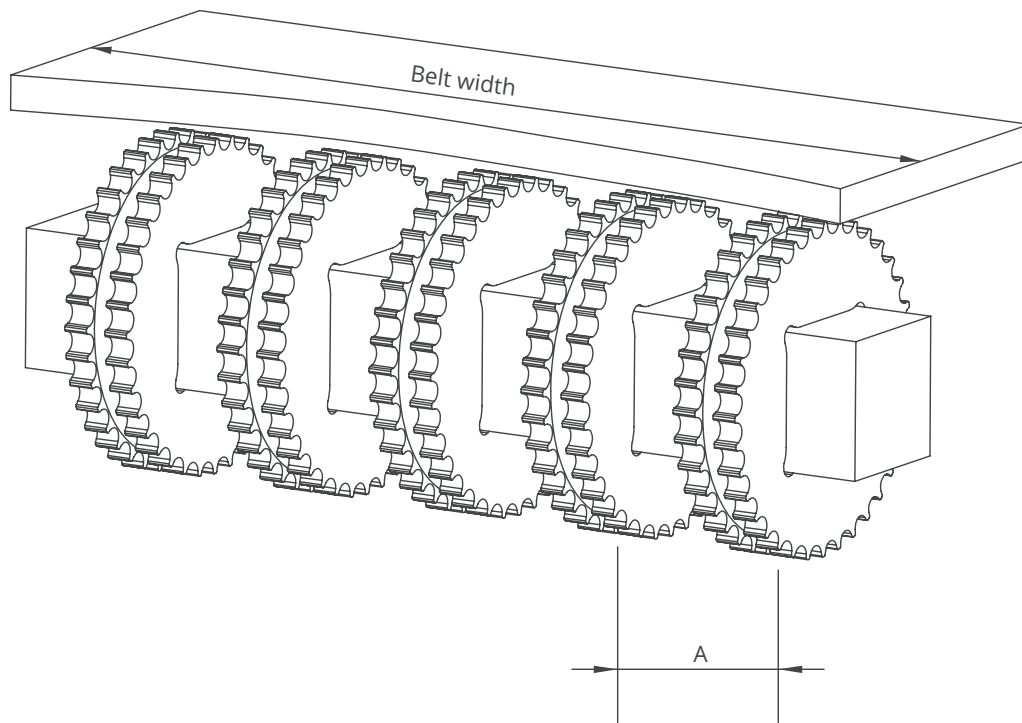


MP80 Series / Conveyor Frame Dimensions

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

Engineering Information



MP80 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch	Minimum	Carryway	Returnway	Min.	Max.
101,6	4	1-2	2	2	51 / 2	203 / 8
203,2	8	2-3	3	3	51 / 2	203 / 8
304,8	12	3	4	3	51 / 2	203 / 8
406,4	16	4	5	4	51 / 2	203 / 8
508,0	20	5	5	5	51 / 2	203 / 8
609,6	24	6	6	5	51 / 2	203 / 8
711,2	28	7	7	6	51 / 2	203 / 8
812,8	32	8	8	7	51 / 2	203 / 8
914,4	36	9	9	7	51 / 2	203 / 8
1016,0	40	10	10	8	51 / 2	203 / 8
1117,6	44	11	10	8	51 / 2	203 / 8
1219,2	48	12	11	9	51 / 2	203 / 8
1320,8	52	13	12	10	51 / 2	203 / 8
1422,4	56	14	12	10	51 / 2	203 / 8
1524,0	60	15	13	11	51 / 2	203 / 8
1625,6	64	16	15	12	51 / 2	203 / 8
1727,2	68	17	15	12	51 / 2	203 / 8
1828,8	72	18	16	13	51 / 2	203 / 8
1930,4	76	19	17	14	51 / 2	203 / 8
2032,0	80	20	17	14	51 / 2	203 / 8
2133,6	84	21	18	15	51 / 2	203 / 8

Note:

*The number of sprockets and wearstrips may vary depending on the conveyor load.

EC127

Modular Belt Series

EC127 C

EC127 FG

EC127 GT / Friction Top

Sprockets & Accessories

Engineering Information







EC127 C

Modular Belt Series

- **Bakery Applications**

Raw 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
Sidewall:	No
Pin:	Ø4,7 mm / 0.185 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	10 mm / 0.394 inch

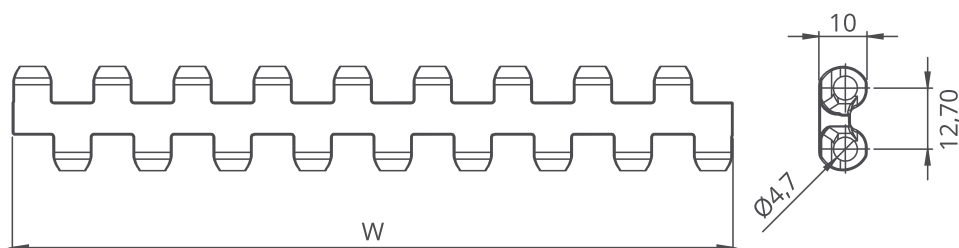


EC127 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	18000 - 1233	17500 - 1199	16000 - 1096	11000 - 754	13000 - 891	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +200	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	8.7 / 1.78	8.7 / 1.78	8.7 / 1.78	5.8 / 1.20	5.9 / 1.20	6.4 / 1.31

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
18	0.70	50	2	75	3	150	6	-	-

Belt Width mm	50,0	100,0	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0
Belt Width inch	1.97	3.94	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	31.50	35.43	37.40
Belt Width mm	1000,0	1050,0																	
Belt Width inch	39.37	41.34																	



Product Features and Functional Benefits

- Easy to clean flat surface
- Unique sprocket engagement reduces pulsation.
- Suitable for tight transfer and nosebar applications.

Important Notes

- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- For PP material up to 750 mm (30") -1 mm to 2 mm and 0% to 0.4% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.35% to 0.1% for wider belts.



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 Applications**

Breeding Lines, Grading Lines and Weighing Lines

- **Snack Food Applications**

Cooling Lines

- **Fruits and Vegetables Applications**

Draining, Sterilization, Conveyance

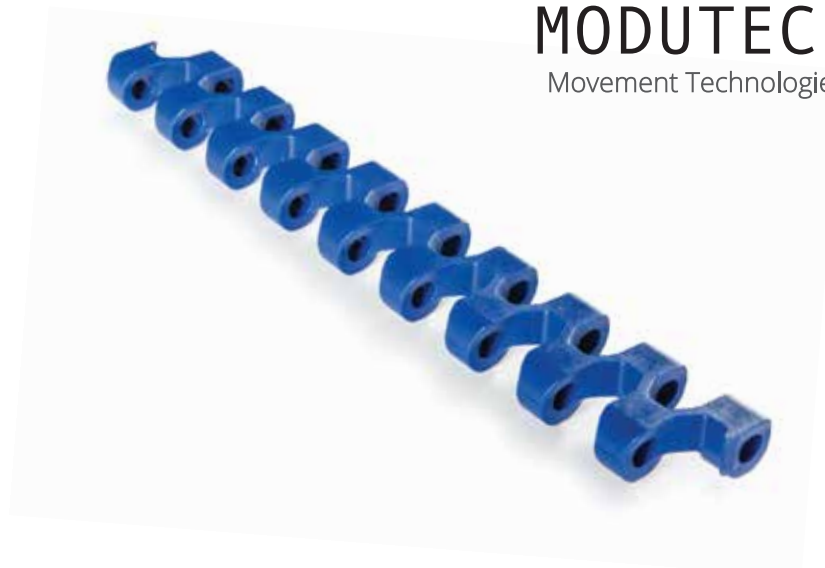
- **Packaging Applications**

Check Weighers, Filling, Palletizing - Depalletizing, Box Transfer



MODUTECH[®]
Movement Technologies

EC127 FG



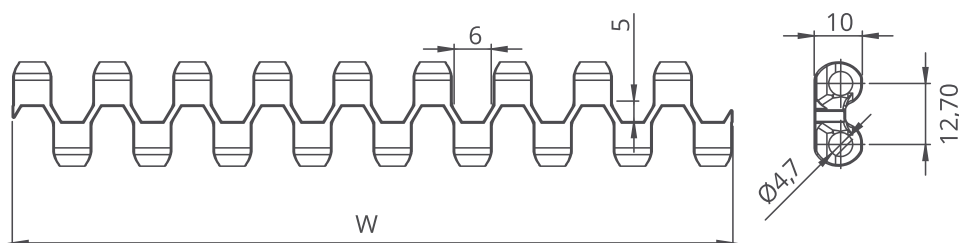
Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	50 mm / 1.97 inch
Open Area (%):	20%. (Biggest opening 3 x 6 mm)
Flight:	Yes
Sidewall:	No
Pin:	Ø4,7 mm / 0.185 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	10 mm / 0.394 inch

EC127 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	18000 - 1233	17500 - 1199	16000 - 1096	11000 - 754	13000 - 891	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +200	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	7.2 / 1.48	7.2 / 1.48	7.2 / 1.48	5.2 / 1.07	5.3 / 1.09	5.8 / 1.19

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
18	0.70	50	2	75	3	150	6	-	-

Belt Width mm	50,0	100,0	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0
Belt Width inch	1.97	3.94	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	31.50	35.43	37.40
Belt Width mm	1000,0	1050,0																	
Belt Width inch	39.37	41.34																	



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.

Important Notes

- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- For PE, PP, POM materials up to 750 mm (30") -1 mm to 2 mm and 0% to 0.4% for wider belts.



EC127 GT

Modular Belt Series

- **Snack Food Applications**

Incline - Decline Lines, Container Conveyance

- **Packaging Applications**

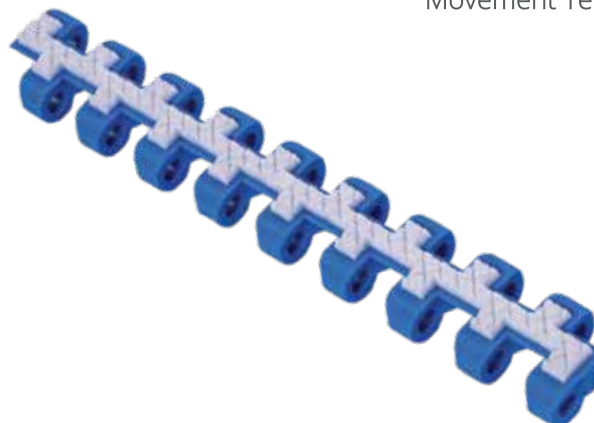
Box Incline - Decline Lines

- **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
Sidewall:	No
Pin:	Ø4,7 mm / 0.185 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	12,5 mm / 0.49 inch

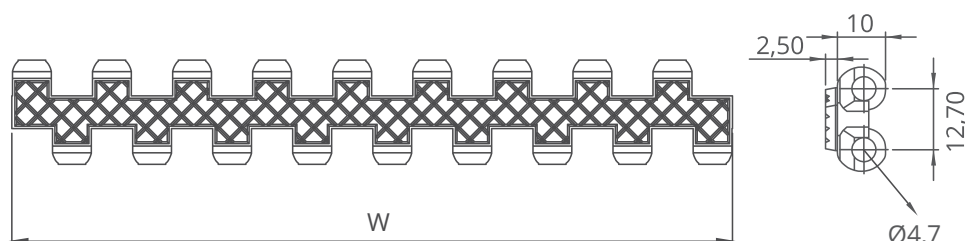


EC127 GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	9000 - 617	9000 - 617
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m ² lb/sqft ²	6.5 / 1.33	6.5 / 1.33

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
18	0.70	50	2	75	3	150	6	-	-

Belt Width mm	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150
Belt Width inch	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	31.50	35.43	37.40	39.37	41.34	43.31	45.28



Product Features and Functional Benefits

- Square rubber top increases friction in incline-decline applications.
- Unique sprocket engagement reduces pulsation.
- Suitable for tight transfer and nosebar applications.

Important Notes

- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Up to 750 mm (30") - 1 mm to 2 mm and 0% to 0.4% for wider belts.

EC127 Series

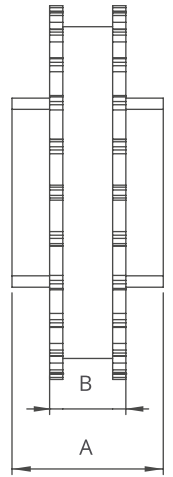
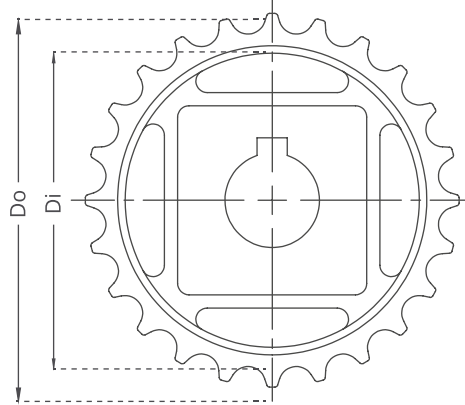
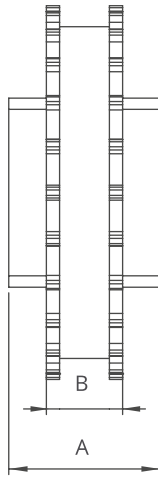
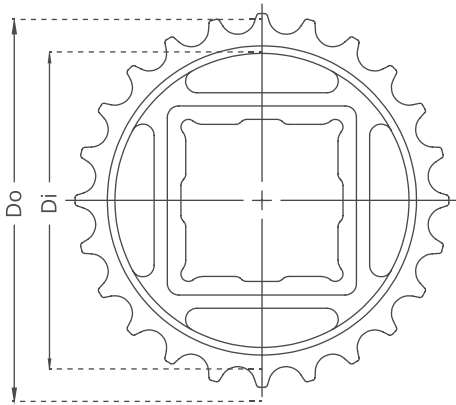
Sprockets and Technical Specifications



Z24



Z24



EC127 Series / Molded Sprocket Dimensions



Split molded sprockets are available for the products with "Red" font color.

NO. TEETH	Di mm/inch	Do mm/inch	B mm/inch	A mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z19	68,5 / 2.69	78,3 / 3.08	20 / 0.79	40 / 1.57	25-40	1.5	20-25-30	1-1.25	EC127SQZ19*PA	EC127SRZ19*PA
Z24*	88,8 / 3.49	98,8 / 3.89	20 / 0.79	40 / 1.57	25- 40	1.5	20-25-30	1-1.25	EC127SQZ24*PA	EC127SRZ24*PA
Z28	105,0 / 4.13	115,2 / 4.53	20 / 0.79	40 / 1.57	40	1.5	20-25-30	1-1.25	EC127SQZ28*PA	EC127SRZ28*PA
Z30	113,1 / 4.45	123,4 / 4.86	20 / 0.79	40 / 1.57	40	1.5	20-25-30	1-1.25	EC127SQZ30*PA	EC127SRZ30*PA
Z36*	137,6 / 5.41	147,9 / 5.82	20 / 0.79	40 / 1.57	40	1.5	20-25-30	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 available for each size.

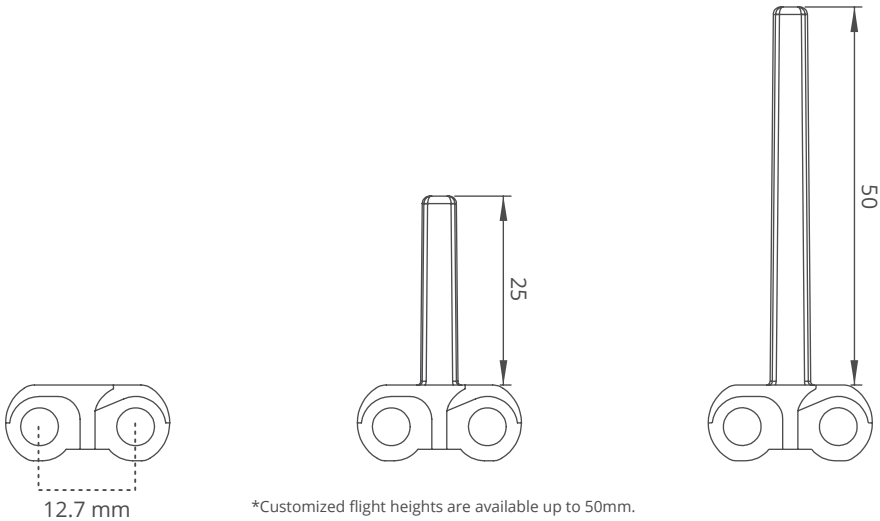
EC127 Series

Accessories and Technical Specifications



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	-	-



*Customized flight heights are available up to 50mm.

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



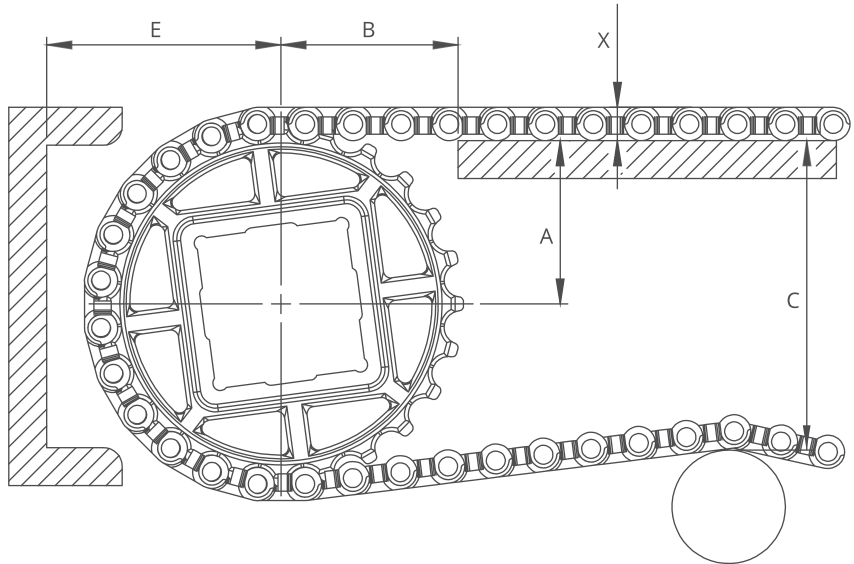
*Non-standard flight indent is available upon request.

EC127 Series

Engineering Information

A - $\pm 0,031"$ (1mm)
 B - $\pm 0,125"$ (3mm)

C - $\pm$ (Max.)
 E - $\pm$ (Min.)

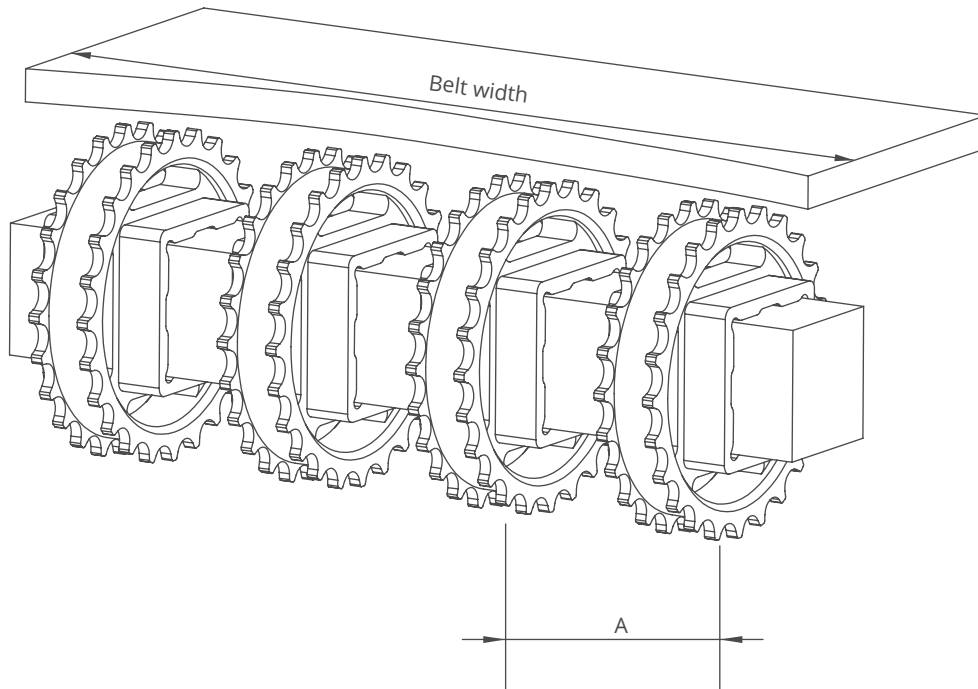


EC127 Series / Conveyor Frame Dimensions

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

Engineering Information



EC127 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
50,0	1,97	1	2	2	50 / 1,96	100 / 3,93
100,0	3,94	1	2	2	50 / 1,96	100 / 3,93
150,0	5,91	2	2	2	50 / 1,96	100 / 3,93
200,0	7,87	2	2	2	50 / 1,96	100 / 3,93
250,0	9,84	3	3	2	50 / 1,96	100 / 3,93
300,0	11,81	3	3	2	50 / 1,96	100 / 3,93
350,0	13,78	3	4	3	50 / 1,96	100 / 3,93
400,0	15,75	3	4	3	50 / 1,96	100 / 3,93
450,0	17,72	5	5	3	50 / 1,96	100 / 3,93
500,0	19,69	5	5	3	50 / 1,96	100 / 3,93
550,0	21,65	5	6	4	50 / 1,96	100 / 3,93
600,0	23,62	5	6	4	50 / 1,96	100 / 3,93
650,0	25,59	7	6	4	50 / 1,96	100 / 3,93
700,0	27,56	7	7	4	50 / 1,96	100 / 3,93
750,0	29,53	7	7	4	50 / 1,96	100 / 3,93
800,0	31,50	7	7	4	50 / 1,96	100 / 3,93
850,0	33,46	9	7	4	50 / 1,96	100 / 3,93
900,0	35,43	9	8	5	50 / 1,96	100 / 3,93
950,0	37,40	9	8	5	50 / 1,96	100 / 3,93
1000,0	39,37	9	8	5	50 / 1,96	100 / 3,93
1050,0	41,34	9	8	5	50 / 1,96	100 / 3,93
1100,0	43,31	11	9	5	50 / 1,96	100 / 3,93
1150,0	45,28	11	9	5	50 / 1,96	100 / 3,93

Note:

*The number of sprockets and wearstrips may vary depending on the conveyor load.

MD127 GAP50%

Modular Belt Series

MD127 GAP50%

MD127 GAP50% FE

Sprockets

Engineering Information







MD127

GAP50%

Modular Belt Series

- **Bakery Applications**

Including Oven Infeed - Outfeed, Coating Lines, Glazing Lines, Freezing Lines, Conditioning Lines, Cooling Lines

- **Poultry Applications**

Cooling and Freezing Lines

- **Seafood Applications**

Including Breeding Machines, Draining Lines

- **Snack Food Applications**

Including Proofer Lines, Boiler Infeed, Oven Infeed - Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Including Prewashing / Rinsing, Draining

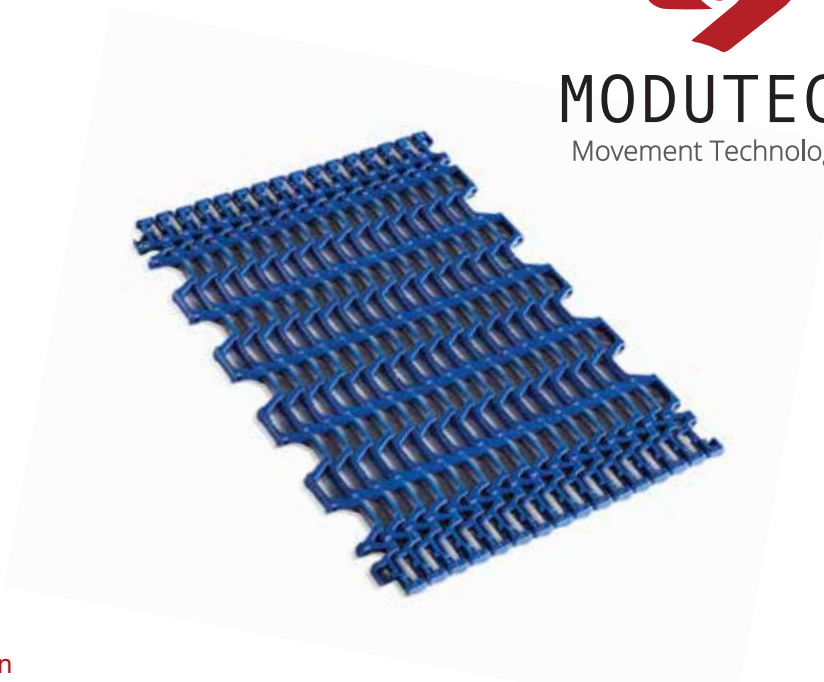
- **Packing Industry**

Shrink Tunnels



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Movement Technologies

MD127 GAP50%



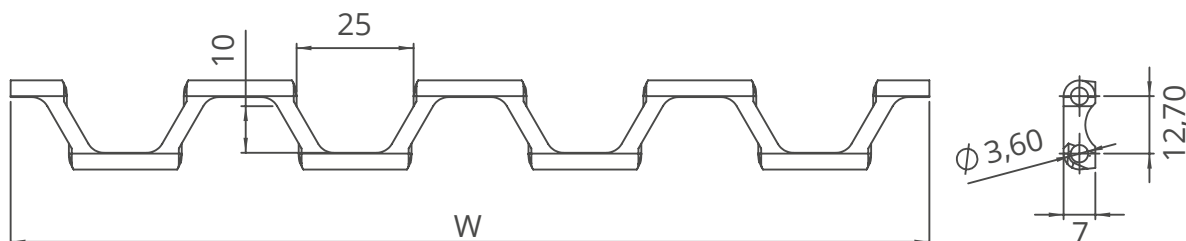
Pitch:	12,7 mm / 0,5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	177,8 mm / 7 inch
Open Area (%):	50%. (Biggest opening 10 x 25 mm)
Flight:	No
Sidewall:	No
Pin:	Ø3,6 mm / 0.142 inch
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	7 mm / 0.276 inch

MD127 GAP50% Technical Information

Belt Material		POM	POM	PP	PP	PA	PA
Pin Material		PA	POM	POM	PA	POM	PA
Belt Strength	N/m lb/ft	4400 - 301	4400 - 301	3200 - 219	3200 - 219	4400 - 301	4400 - 301
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +200	-40 / +93 -40 / +200	-46 / +116 -50 / +240
Belt Weight	kg/m ² lb/sqft ²	3.6 / 0.75	3.6 / 0.75	2.8 / 0.57	2.8 / 0.57	3.3 / 0.68	3.3 / 0.68

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
18	0.70	50	2	75	3	150	6	-	-

Belt Width mm	203,20	254,00	304,80	355,60	406,40	457,20	508,00	558,80	609,60	660,40	711,20	762,00	812,80	863,60	914,40	965,20	1016,0
Belt Width inch	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00
Belt Width mm	1066,80	1177,60	1168,40	1219,20													
Belt Width inch	42.00	44.00	46.00	48.00													



Product Features and Functional Benefits

- 50% open area offers excellent airflow and drainage.
- Less friction and product contact for easy cooking, cooling and freezing applications.
- Reduced dirt and oxide build due to self cleaning surface.
- Suitable for tight transfer and nosebar applications.

Important Notes

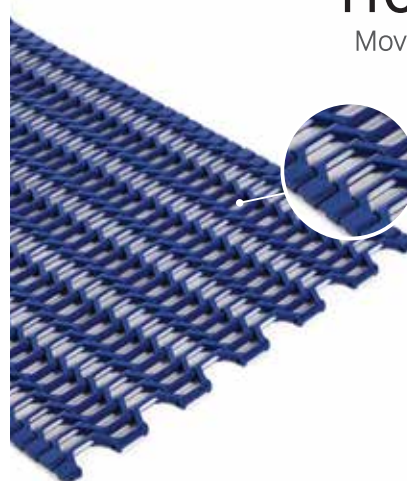
- Standard belt increments 101,6 mm.
- Non-standard belt increments 50,8 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



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Movement Technologies

MD127 GAP50% FE

Pitch:	12,7 mm / 0.50 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	177,8 mm / 7 inch
Open Area (%):	50%. (Biggest opening 10 x 25 mm)
Flight:	No
Sidewall:	No
Pin:	Ø3,6 mm / 0.142 inch
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	7 mm / 0.276 inch

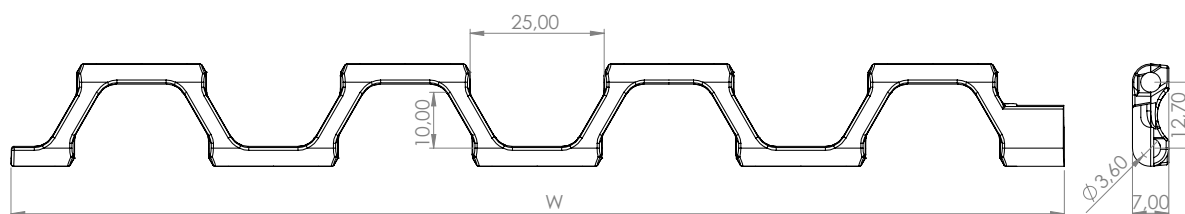


MD127 GAP50% FE Technical Information

Belt Material		POM	POM	PP	PP	PA	PA
Pin Material		PA	POM	POM	PA	POM	PA
Belt Strength	N/m lb/ft	4400 - 301	4400 - 301	3200 - 219	3200 - 219	4400 - 301	4400 - 301
Temperature	°C °F	-40 / +93 +40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +200	-40 / +93 +40 / +200	-46 / 150 -46 / 302
Belt Weight	kg/m² lb/sqft²	3,6 / 0.75	3,6 / 0.75	2,8 / 0.57	2,8 / 0.57	3,3 / 0.68	3,3 / 0.68

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
18	0.70	50	2	75	3	150	6	-	-

Belt Width mm	203,2	254,0	304,8	355,6	406,4	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6	1168,4
Belt Width inch	8.00	10.00	12.00	14.00	16.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00
Belt Width mm	1219,2																		
Belt Width inch	48.00																		



Product Features and Functional Benefits

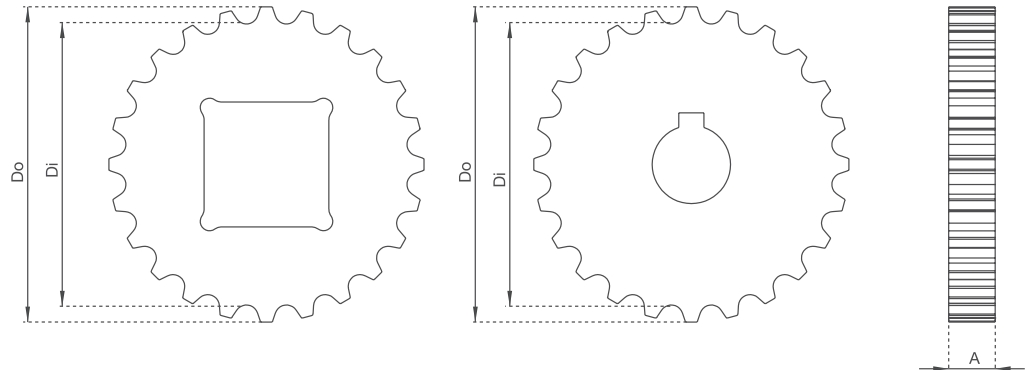
- 50% open area offers excellent airflow and drainage.
- Less friction and product contact for easy cooking, cooling and freezing applications.
- The smooth edge design prevents dirt/debris accumulation.
- Suitable for tight transfer and nosebar applications.

Important Notes

- Standard belt increments 101,6 mm.
- Non-standard belt increments 50,8 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.
- For PA material up to 750 mm (30") 0% to 7.5% and 0% to 8% for wider belts.

MD127 GAP50% Series

Engineering Information



MD127 GAP50% 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)
Z19	70,9 / 2.79	80,8 / 3.18	-	15 / 0.59	25-40	1-1.5	25-30	1-1.25	MD127G50SQZ19	MD127G50SRZ19
Z24	91,3 / 3.59	101,5 / 3.99	-	15 / 0.59	25-40	1-1.5	25-30	1-1.25	MD127G50SQZ24	MD127G50SRZ24
Z36	140,5 / 5.53	151 / 5.94	-	15 / 0.59	40	1.5	25-30	1-1.25	MD127G50SQZ36	MD127G50SRZ36

*All required sprockets produced by CNC.

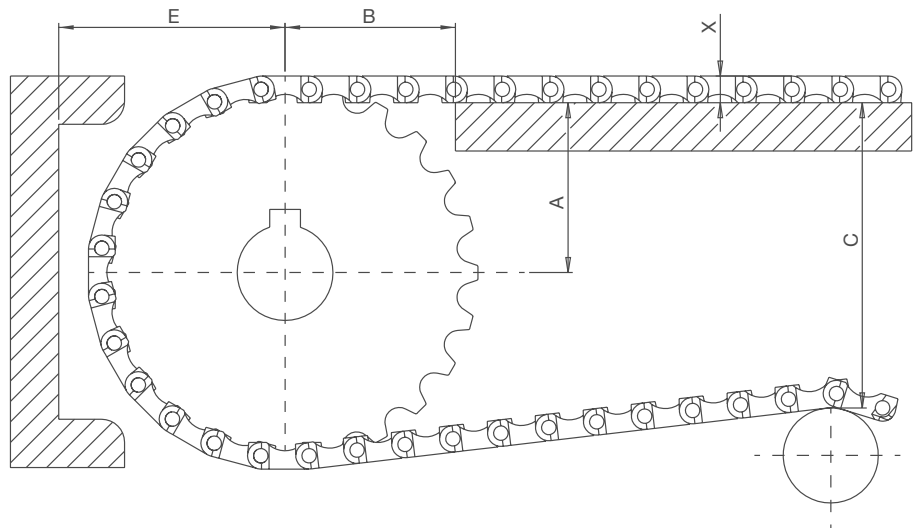
*Other sprockets and hub sizes are manufactured up to request.

*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available for each size.

A - $\pm 0,031"$ (1mm)
B - $\pm 0,125"$ (3mm)

C - $\pm$ (Max.)
E - $\pm$ (Min.)

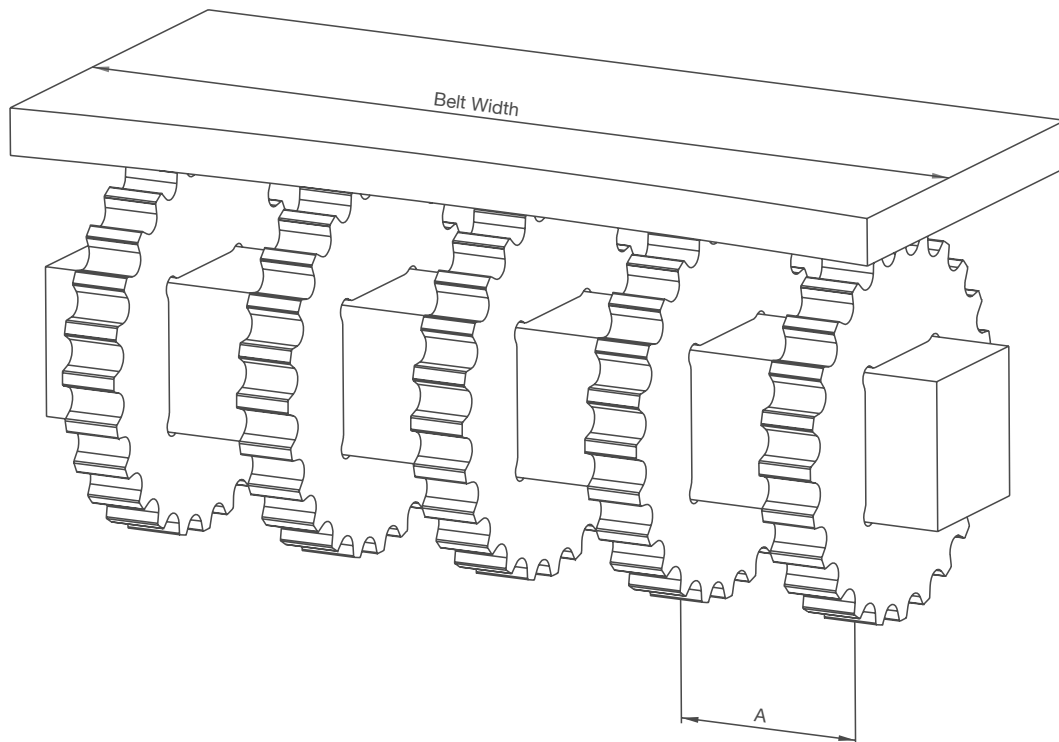


MD127 GAP50% Series / Conveyor Frame Dimensions

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								
MD127 GAP50%												
3.09	78,4	19	1.39	35,4	1.57	40	2.95	75	1.89	48	0.28	7
3.86	98,8	24	1.80	45,7	1.97	50	3.74	95	2.28	58	0.28	7
5.83	148	36	2.77	70.3	2.95	75	5.71	145	3.23	82	0.28	7

MD127 GAP50% Series

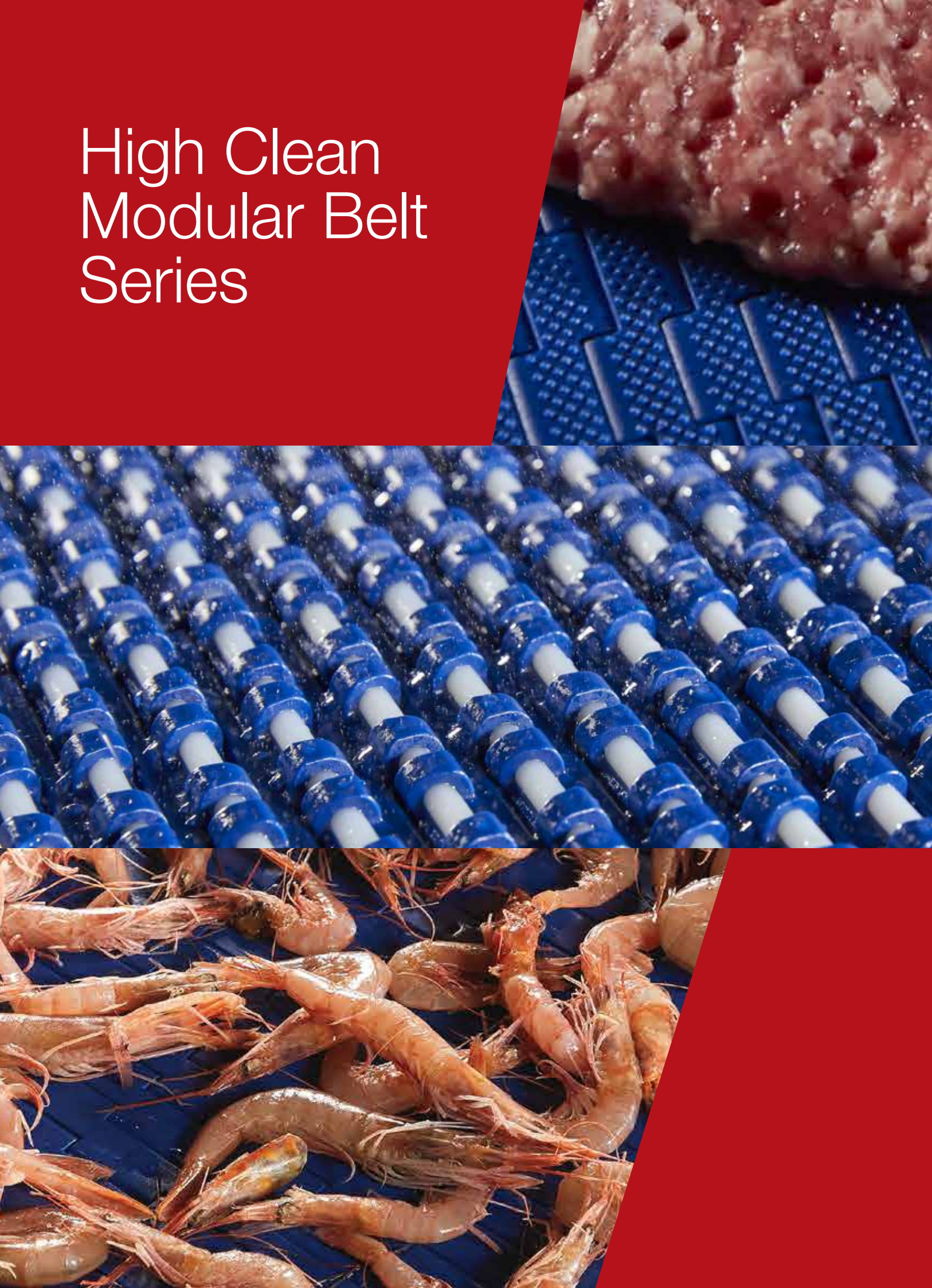
Engineering Information



MD127 GAP50% Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
177,8	7.0	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

High Clean Modular Belt Series





MODUTECH®

HC127

Modular Belt Series

HC127 C

HC127 BLB

Sprockets

Engineering Information







HC127 C

Modular Belt Series

- **Meat (Beef and Pork) Applications**

Fat - Trim Lines, General Conveyence, Packing Lines, Elevator

- **Poultry Applications**

Debonning, Trim Lines, Offal - Feather Lines, Grading Lines, Freezing Lines, Elevator

- **Seafood Applications**

Inspection Tables, Grading Lines, Trim Lines

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control - Sorting Table

HC127 C

Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	101,6 mm / 4 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,5 mm / 0.177 inch
Approved:	FDA and EU
Color:	Blue
Cleanability:	Excellent
Belt Thickness:	8 mm / 0.315 inch

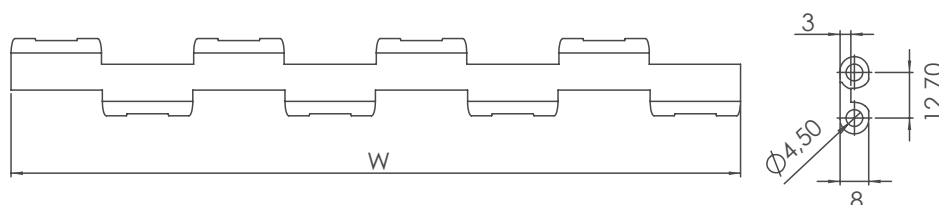


HC127 C Technical Information

Belt Material		POM
Pin Material		POM
Belt Strength	N/m lb/ft	4700 - 322
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	5.7 / 1.17

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
18	0.70	50	2	75	3	-	-	-	-

Belt Width mm	254,00	304,80	355,60	406,40	457,20	508,00	558,80	609,60	660,40	711,20	762,00	812,80	863,60	914,40	965,20	1016,00	1066,80
Belt Width inch	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00
Belt Width mm	1117,60	1168,40	1219,20	1270,00													
Belt Width inch	44.00	46.00	48.00	50.00													



Product Features and Functional Benefits

- High clean product design
- Special hinges prevent bacterial growth.

Important Notes

- Standard belt increments 101,6 mm.
- Non-standard belt increments 50,8 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally **0.1% to 0.3%** smaller.



HC127 BLB

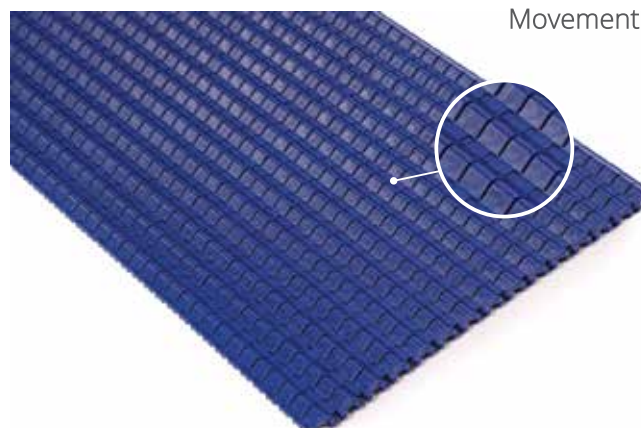
Modular Belt Series



MODUTECH[®]
Movement Technologies

HC127 BLB

Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Close, Pyramid Surface
Minimum Width:	121,74 mm / 4.79 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4.5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	13,56 mm / 0.534 inch

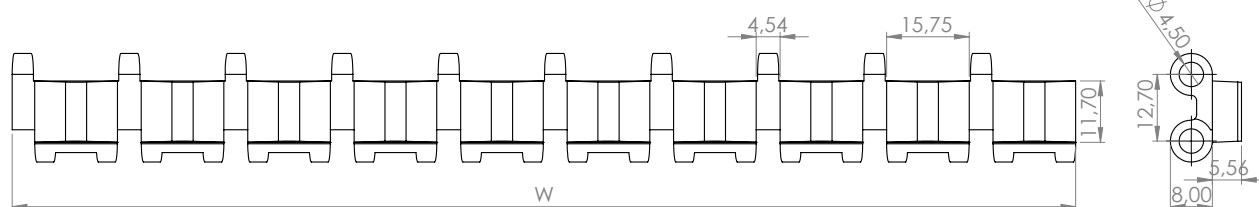


HC127 BLB Technical Information

Belt Material		POM	POM
Pin Material		POM	PA
Belt Strength	N/m lb/ft	5170 - 354	5170 - 354
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	8,1 / 1.65	7,7 / 1.60

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
25	1	50	2	75	3	75	3	-	-

Belt Width mm	121,7	223,3	324,9	426,5	528,1	629,7	731,3	832,9	934,5	1036,1	1137,7
Belt Width inch	4.8	8.8	12.8	16.8	20.8	24.8	28.8	32.8	36.8	40.8	44.8



Product Features and Functional Benefits

- Special design for sorter lines. Especially for Blueberries.
- Food approved materials

Important Notes

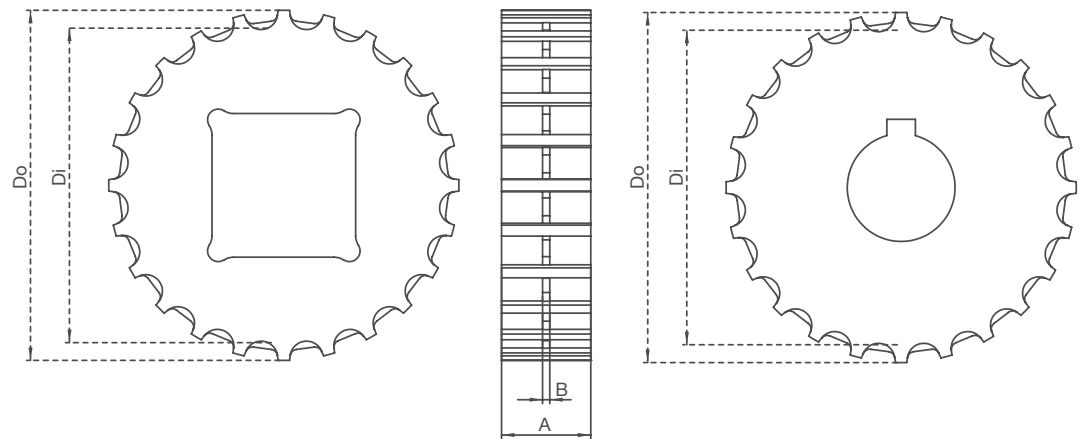
- Standard belt width increments 101,6 mm (4")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.

HC127 Series

Engineering Information



Z36



HC127 Serie / 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)
Z15	51,9 / 2.04	61,4 / 2.42	2 / 0.08	25 / 0.98	25	1	25-30	1-1.25	HC127SQZ15*POM	HC127SRZ15*POM
Z16	55,9 / 2.20	65,5 / 2.58	2 / 0.08	25 / 0.98	25	1	25-30	1-1.25	HC127SQZ16*POM	HC127SRZ16*POM
Z17	59,9 / 2.36	69,5 / 2.74	2 / 0.08	25 / 0.98	25	1	25-30	1-1.25	HC127SQZ17*POM	HC127SRZ17*POM
Z18	63,9 / 2.52	73,6 / 2.90	2 / 0.08	25 / 0.98	25-40	1-1.5	25-30	1-1.25	HC127SQZ18*POM	HC127SRZ18*POM
Z19	68,0 / 2.68	77,7 / 3.06	2 / 0.08	25 / 0.98	25-40	1-1.5	25-30	1-1.25	HC127SQZ19*POM	HC127SRZ19*POM
Z24	88,1 / 3.47	98,1 / 3.86	2 / 0.08	25 / 0.98	25-40	1-1.5	25-30	1-1.25	HC127SQZ24*POM	HC127SRZ24*POM
Z36	136,5 / 5.37	146,8 / 5.78	2 / 0.08	25 / 0.98	40	1.5	25-30	1-1.25	HC127SQZ36*POM	HC127SRZ36*POM

*All required sprockets produced by CNC.

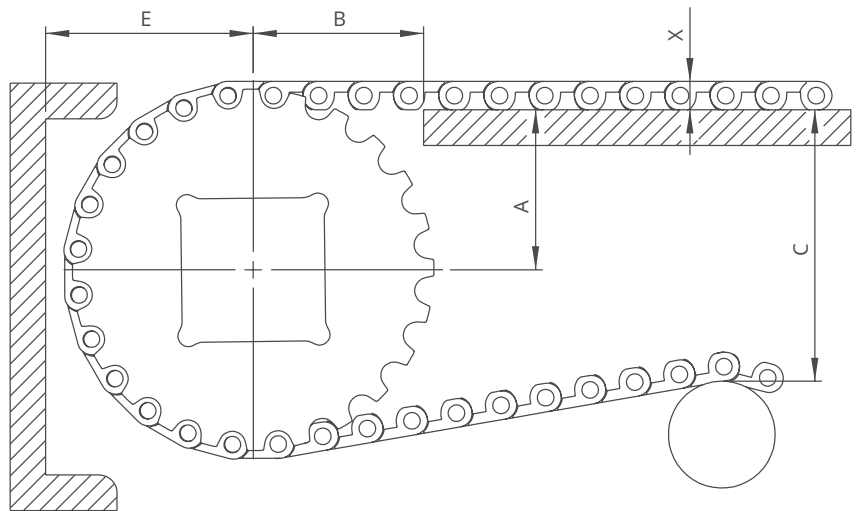
*Other sprockets and hub sizes are manufactured up to request.

*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available for each size.

A - $\pm 0,031''$ (1mm)
B - $\pm 0,125''$ (3mm)

C - $\pm$ (Max.)
E - $\pm$ (Min.)

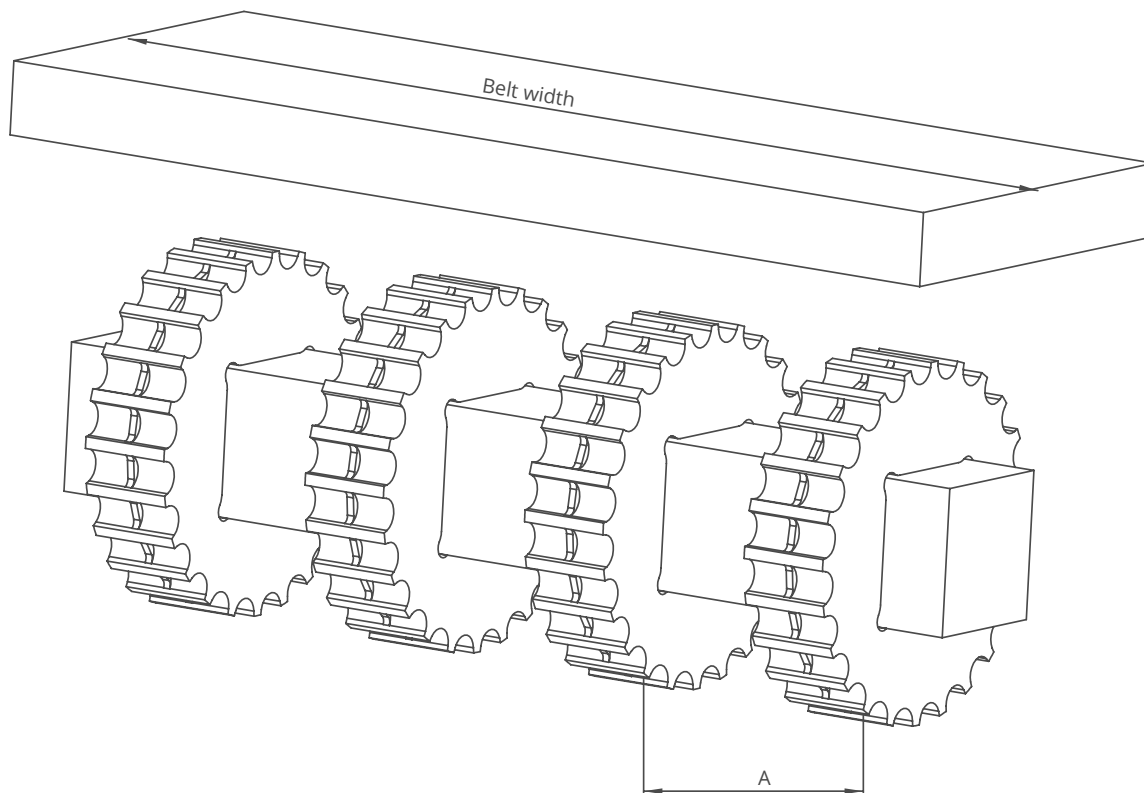


HC127 Serie / Conveyor Frame Dimensions

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								
HC127 C, HC127 BLB												
2.40	61,1	15	1.06	26,8	1.24	31,5	1.36	34,5	1.52	38,5	0.31	8,0
2.56	65,1	16	1.13	28,8	1.32	33,5	1.51	38,3	1.60	40,6	0.31	8,0
2.72	69,1	17	1.21	30,8	1.40	35,5	1.66	42,2	1.68	42,7	0.31	8,0
2.87	73,1	18	1.29	32,8	1.48	37,5	1.83	46,5	1.76	44,6	0.31	8,0
3.03	77,2	19	1.37	34,8	1.56	39,5	1.94	49,4	1.84	46,7	0.31	8,0
3.83	97,3	24	1.77	44,9	1.95	49,5	2.75	69,8	2.24	56,9	0.31	8,0
5.73	145,7	36	2.74	69,5	2.93	74,5	4.69	119	3.21	81,5	0.31	8,0

HC127 Series

Engineering Information



HC127 Serie / 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

SM127

Modular Belt Series

SM127 C

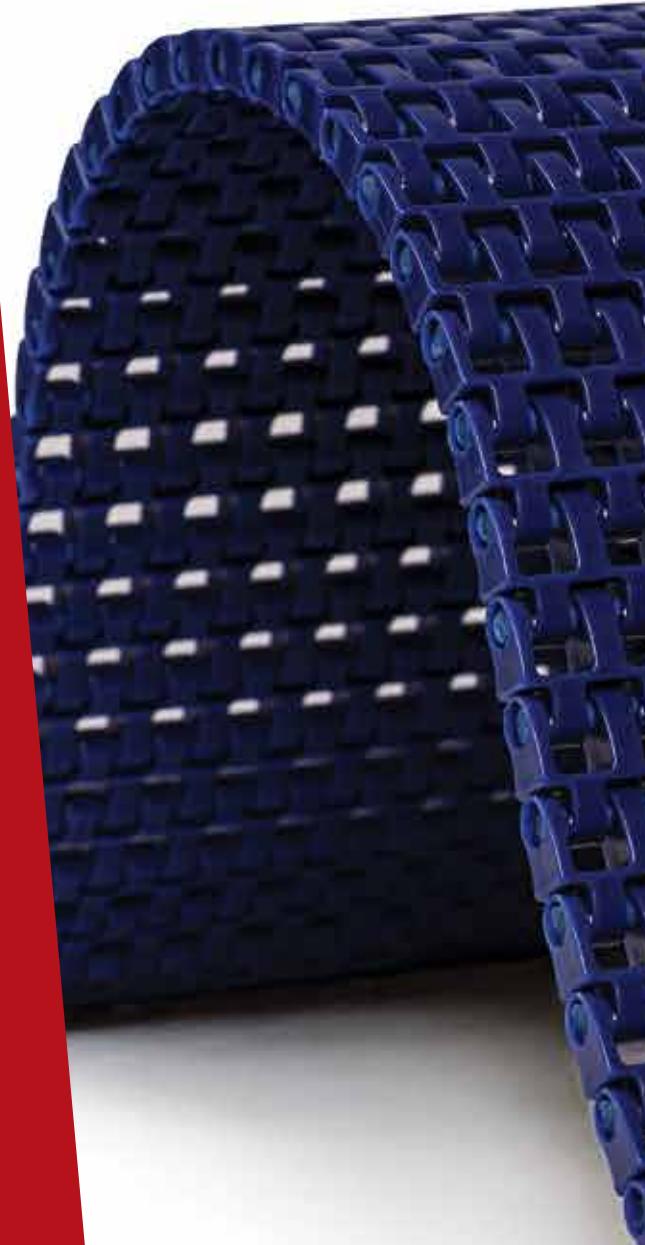
SM127 FG

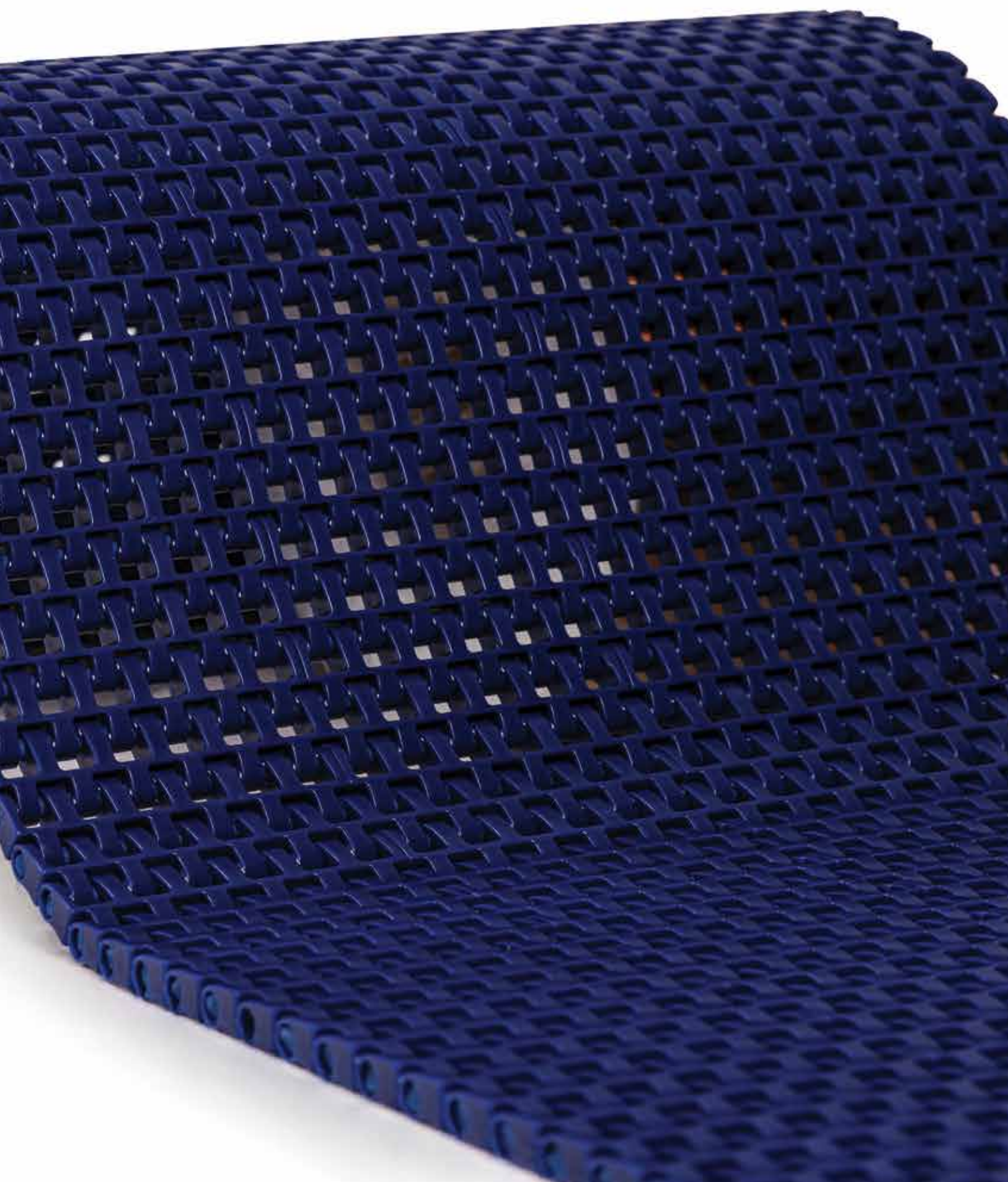
SM127 FG-GT

SM127 CRV

Sprockets

Engineering Information







SM127 C

Modular Belt Series

- **Bakery Applications**

Raw 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

- **Tire Manufacturing Applications**

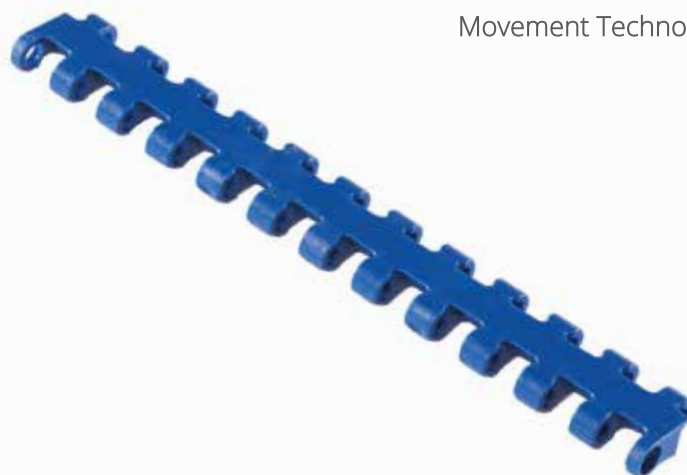
Scalling, Marking, Sciver Cementing, Water Blow - Off,

Tire Transport Horizontal

SM127 C



MODUTECH[®]
Movement Technologies



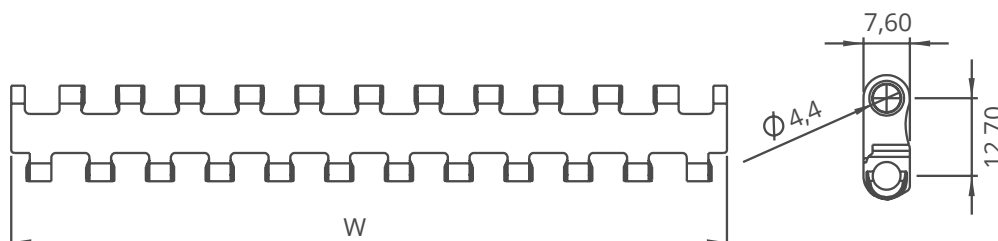
Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,4mm / 0.173 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	7,6 mm / 0.3 inch

SM127 C Technical Information

Belt Material		POM	POM	POM	PP	PP
Pin Material		PA	POM	PP	PP	POM
Belt Strength	N/m lb/ft	22475 - 1540	22475 - 1540	22475 - 1540	12845 - 880	12845 - 880
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m ² lb/sqft ²	6.2 / 1.27	6.2 / 1.27	6.2 / 1.27	4.3 / 0.88	4.3 / 0.88

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
19	0.75	50	2	75	3	-	-	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2														
Belt Width inch	57.00	60.00	63.00														



Product Features and Functional Benefits

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

Important Notes

- **Standard belt increments 76,2 mm.**
- **Non-standard belt increments 12,7 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.



SM127 FG

Modular Belt Series

- **Bakery Applications**

Divider, Oven Infeed-Outfeed, Cooling Lines, Coating-Glazing Lines, Freezing Lines, Metal Detector, Spiral Infeed-Outfeed, Conditioning Lines

- **Meat and Poultry Applications**

Transfer - Crossover Conveyance, Shrink Wrapping and Metal Detectors, Freezing Lines

- **Seafood Applications**

Control Table, Glazing and Metal Detector

- **Beverage Applications**

Can, Glass and PET Palletizing-Depalletizing,

- **Fruits and Vegetables Applications**

Sterilization Conveyance, Draining and Metal Detector

- **Can, Glass and PET Manufacturing Applications**

Washer infeed, accumulation tables and palletizing-depalletizing

- **Printing and Paper Applications**

Printing Machine Outfeed, Stacker Outfeed, Wrapping Machine Outfeed, Book Binding

- **Corrugated Applications**

Down Stackers, Stock Handling-Buffer, Transfer Cart, Strap Feed, Casemaker Feeder

SM127 FG



MODUTECH®
Movement Technologies

Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	22%. (Biggest opening 3,6 x 8,1 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,4mm / 0.173 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	7,6 mm / 0.3 inch

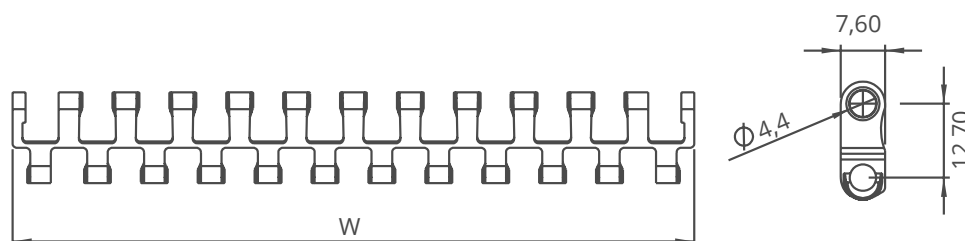


SM127 FG Technical Information

Belt Material		POM	POM	POM	PP	PP
Pin Material		PA	POM	PP	PP	POM
Belt Strength	N/m lb/ft	22475 - 1540	22475 - 1540	22475 - 1540	12845 - 880	12845 - 880
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	6.1 / 1.25	6.1 / 1.25	6.1 / 1.25	4.2 / 0.86	4.2 / 0.86

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
19	0.75	50	2	75	3	-	-	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2														
Belt Width inch	57.00	60.00	63.00														

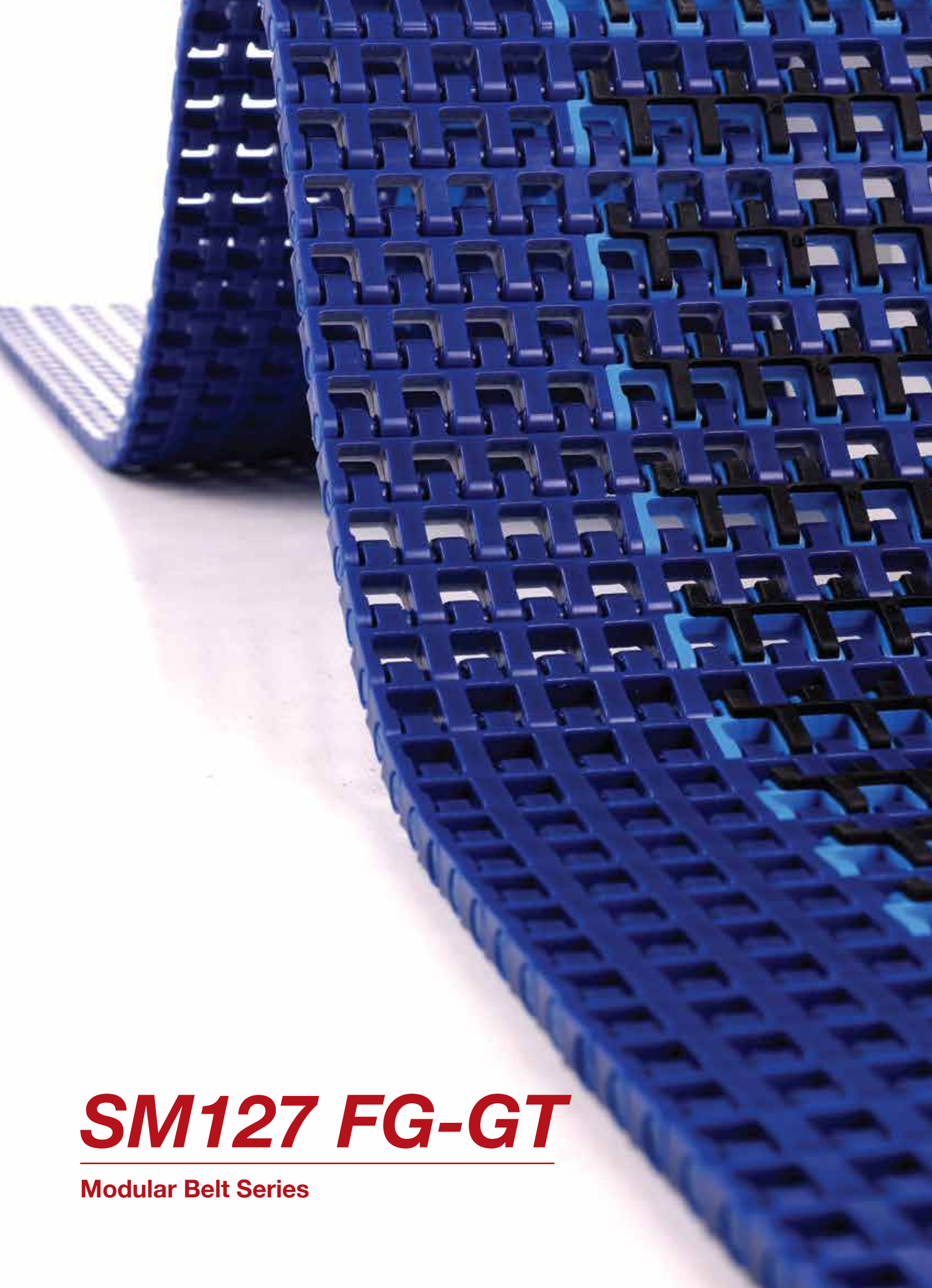


Product Features and Functional Benefits

- 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.

Important Notes

- **Standard belt increments 76,2 mm.**
- **Non-standard belt increments 12,7 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.



SM127 FG-GT

Modular Belt Series



MODUTECH[®]
Movement Technologies

SM127 FG-GT

Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Open, Friction Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	37% (Biggest opening 3,6 x 8,1 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,4mm / 0.173 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	9,6 mm / 0.38 inch

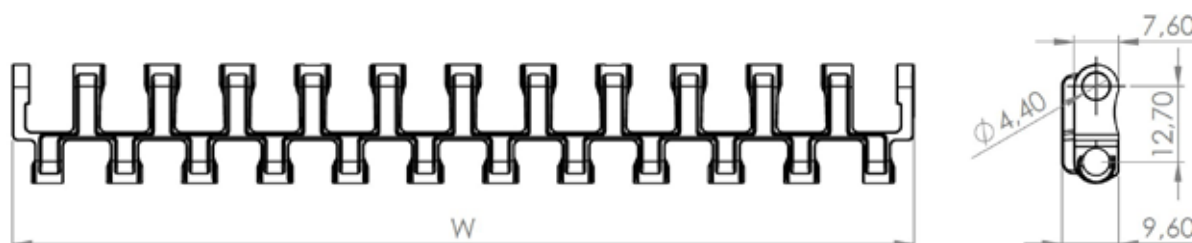


SM127FG-GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	12845 - 880	12845 - 880
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m ² lb/sqft ²	4.87 / 1.00	5.38 / 1.10

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
19	0.75	50	2	75	3	-	-	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8	1524,0
Belt Width inch	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60



Product Features and Functional Benefits

- Flush grid rubber top surface for incline/decline and acceleration conveyors.
- Belt provides optimal open area for drainage and airflow.
- Operational & Environmental conditions can affect the performance of rubber top surface.
- Suitable for tight transfer and nosebar applications. Minimum nosebar diameter 19mm (0.75")

Important Notes

- **Standard belt width increment: 76,2 mm / 3 inch**
- **Non-standard belt width increment: 12,7 mm / 0,5 inch**
- Standard rubber indent: 4,4 mm / 0,17 inch
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.



SM127 CRV

Modular Belt Series

- **Bakery Applications**

Divider, Oven Infeed-Outfeed, Cooling Lines, Coating-Glazing Lines, Freezing Lines, Metal Detector, Spiral Infeed-Outfeed, Conditioning Lines

- **Meat and Poultry Applications**

Transfer - Crossover Conveyance, Shrink Wrapping and Metal Detectors, Freezing Lines

- **Seafood Applications**

Control Table, Glazing and Metal Detector

- **Snack Food Applications**

Cooling Lines

- **Fruits and Vegetables Applications**

Sterilization Conveyance, Draining and Metal Detector

- **Packing Applications**

Check Weighs, Filling, Metal Detector, Palletizing-Depalletizing, Box Transport Horizontal

SM127 CRV



MODUTECH[®]
Movement Technologies

Pitch:	12,7 mm / 0.5 inch
Belt Surface:	Open, Curve Top Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	22%. (Biggest opening 3,6 x 8,1 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,4mm / 0.173 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	8,6 mm / 0.338 inch

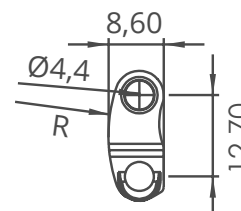
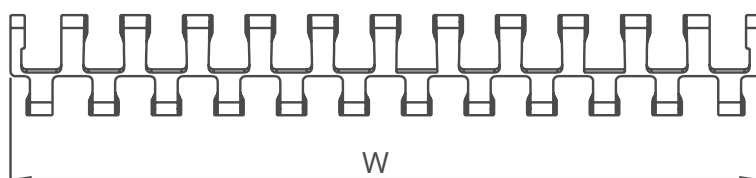


SM127 CRV Technical Information

Belt Material		POM	POM	POM	PP	PP
Pin Material		PA	POM	PP	PP	POM
Belt Strength	N/m lb/ft	22475 - 1540	22475 - 1540	22475 - 1540	12845 - 880	12845 - 880
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m ² lb/sqft ²	6.3 / 1.30	6.3 / 1.30	6.3 / 1.30	4.4 / 0.91	4.4 / 0.91

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
19	0.75	50	2	75	3	-	-	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2														
Belt Width inch	57.00	60.00	63.00														



Product Features and Functional Benefits

- Curved top decreases contact area to reduce cooling and freezing time.
- 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.
- Less vibration in high speed and nosebar applications.

Important Notes

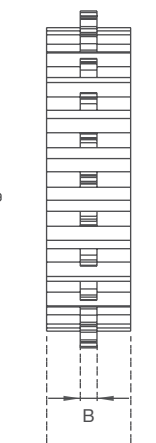
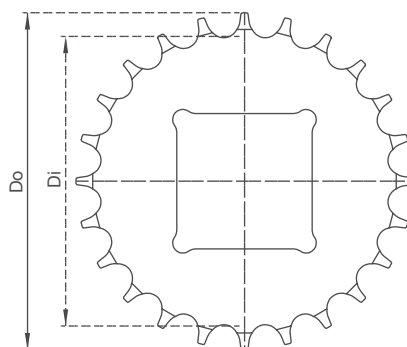
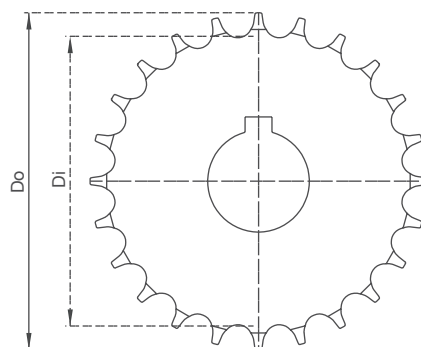
- Standard belt width increment: 76,2 mm / 3 inch
- Non-standard belt width increment: 12,7 mm / 0,5 inch
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.

SM127 Series

Sprockets and Technical Specifications



Z24



SM127 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)
Z15	50,1 / 1.97	63,5 / 2.50	5 / 0.19	25 / 0.98	25	1	25-30	1-1.25	SM127SQZ15*POM	SM127SRZ15*POM
Z19	66,1 / 2.60	79,8 / 3.14	5 / 0.19	25 / 0.98	25	1	25-30	1-1.25	SM127SQZ19*POM	SM127SRZ19*POM
Z24	86,1 / 3.39	100,1 / 3.94	5 / 0.19	25 / 0.98	25-40	1-1.5	25-30	1-1.25	SM127SQZ24*POM	SM127SRZ24*POM
Z28	102,2 / 4.02	116,3 / 4.58	5 / 0.19	25 / 0.98	25-40	1-1.5	25-30	1-1.25	SM127SQZ28*POM	SM127SRZ28*POM
Z36	134,0 / 5.28	148,6 / 5.85	5 / 0.19	25 / 0.98	25-40	1-1.5	25-30	1-1.25	SM127SQZ36*POM	SM127SRZ36*POM

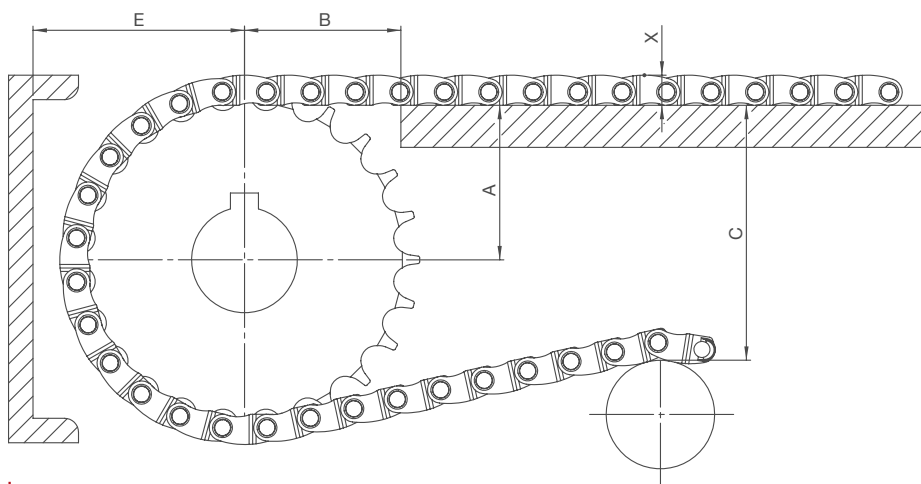
*All required sprockets produced by CNC. *Other sprockets and hub sizes are manufactured up to request.

*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available for each size.

A - $\pm 0,031"$ (1mm)
B - $\pm 0,125"$ (3mm)

C - $\pm$ (Max.)
E - $\pm$ (Min.)

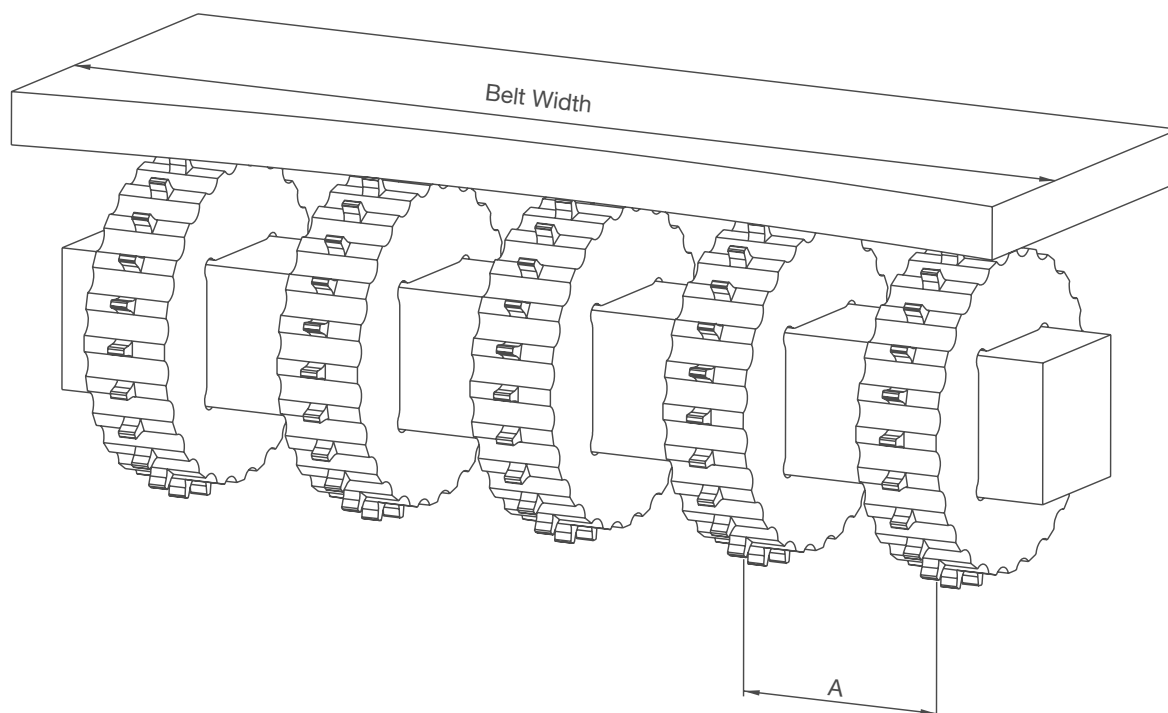


SM127 Series / Conveyor Frame Dimensions

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								
SM127 C, SM127 FG												
2.30	58,5	15	1.01	25,7	1.19	30,2	1.89	48,1	1.49	38,1	0.30	7,6
2.95	74,9	19	1.33	33,9	1.52	38,5	2.58	65,5	1.84	46,3	0.30	7,6
3.73	94,7	24	1.72	43,8	1.91	48,4	3.41	86,5	2.27	56,2	0.30	7,6
4.37	111	28	2.04	51,9	2.23	56,6	4.06	103,2	2.62	64,4	0.30	7,6
5.61	142,5	36	2.67	67,7	2.85	72,3	5.48	139,1	3.31	75,1	0.30	7,6
SM127 CRV												
2.30	58,5	15	1.01	25,7	1.19	30,2	1.93	49,1	1.54	39,1	0.34	8,6
2.95	74,9	19	1.33	33,9	1.52	38,5	2.62	66,5	1.86	47,3	0.34	8,6
3.73	94,7	24	1.72	43,8	1.91	48,4	3.44	87,5	2.25	57,2	0.34	8,6
4.37	111	28	2.04	51,9	2.23	56,6	4.10	104,2	2.57	65,2	0.34	8,6
5.61	142,5	36	2.67	67,7	2.85	72,3	5.52	140,1	3.00	76,1	0.34	8,6

SM127 Series

Engineering Information



SM127 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
152,4	6.0	2	2	60/2.36	170/6.6
228,6	9.0	2	2	60/2.36	170/6.6
304,8	12.0	3	2	60/2.36	170/6.6
381,0	15.0	4	3	60/2.36	170/6.6
457,2	18.0	5	3	60/2.36	170/6.6
533,4	21.0	5	3	60/2.36	170/6.6
609,6	24.0	6	3	60/2.36	170/6.6
685,8	27.0	6	4	60/2.36	170/6.6
762,0	30.0	7	4	60/2.36	170/6.6
838,2	33.0	7	4	60/2.36	170/6.6
914,4	36.0	8	4	60/2.36	170/6.6
990,6	39.0	8	5	60/2.36	170/6.6
1066,8	42.0	9	5	60/2.36	170/6.6
1143,0	45.0	9	5	60/2.36	170/6.6
1219,2	48.0	10	5	60/2.36	170/6.6
1295,4	51.0	10	6	60/2.36	170/6.6
1371,6	54.0	11	7	60/2.36	170/6.6
1447,8	57.0	11	7	60/2.36	170/6.6
1524,0	60.0	12	7	60/2.36	170/6.6
1600,2	63.0	12	8	60/2.36	170/6.6
1676,4	66.0	12	8	60/2.36	170/6.6
1752,6	69.0	13	8	60/2.36	170/6.6
1828,8	72.0	14	9	60/2.36	170/6.6
1905,0	75.0	14	9	60/2.36	170/6.6
1981,2	78.0	15	10	60/2.36	170/6.6
2057,4	81.0	15	10	60/2.36	170/6.6

Note: Number of sprockets depends on the belt load.

HC152

Modular Belt Series

HC152 C

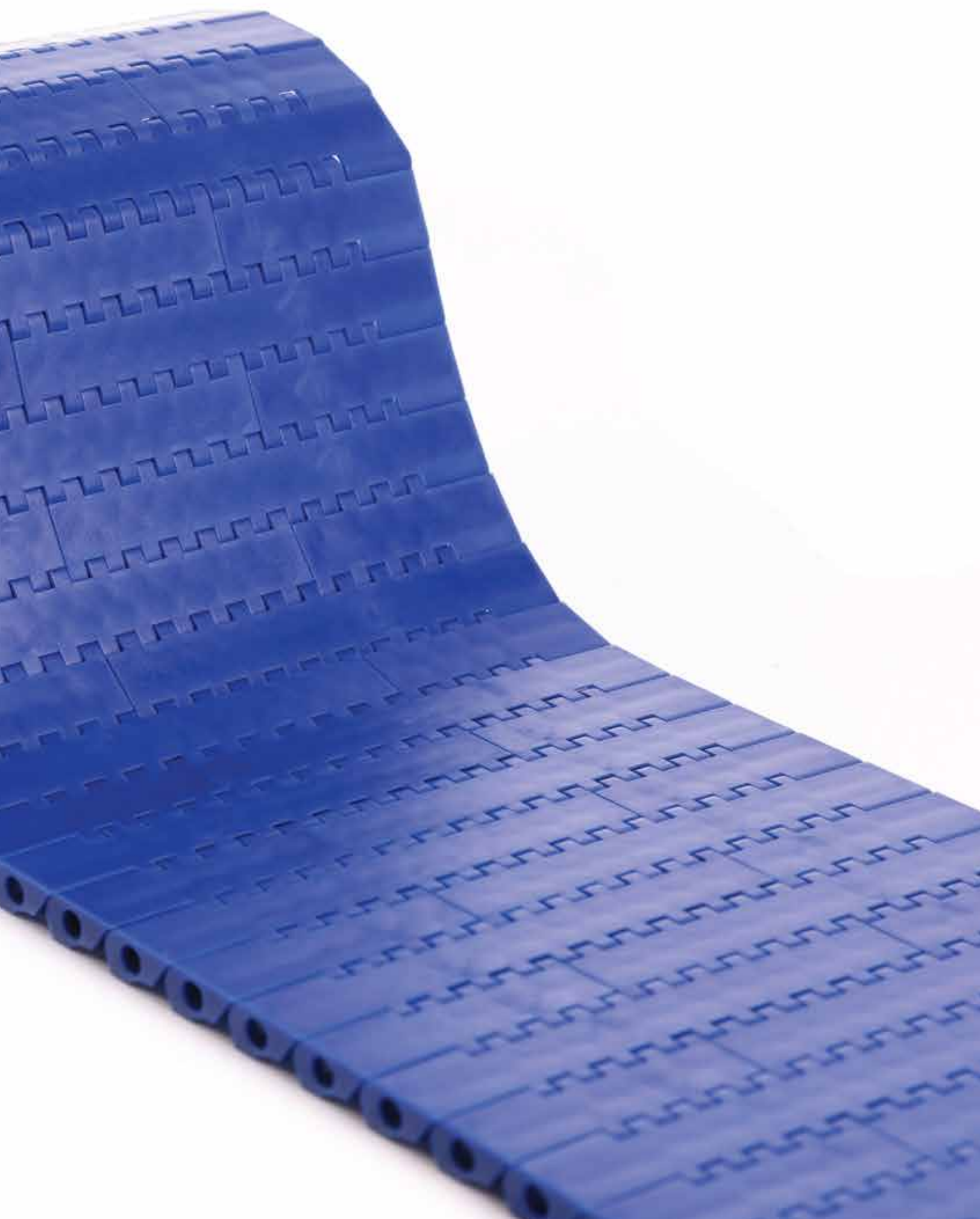
HC152 FG

HC152 FG-GT

Sprockets

Engineering Information







HC152 C

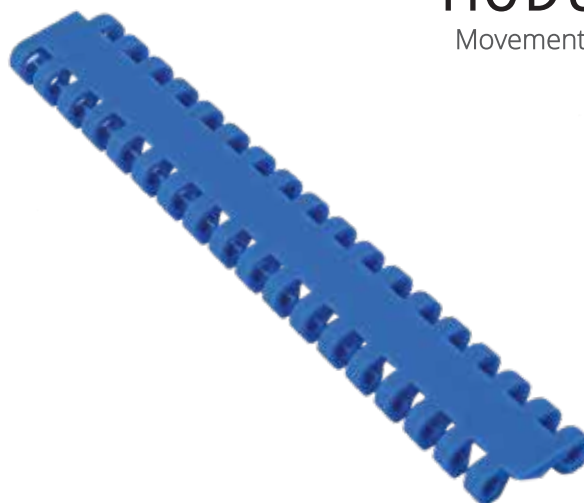
Modular Belt Series



MODUTECH®
Movement Technologies

HC152 C

Pitch:	15,24 mm / 0.6 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8,7 mm / 0.344 inch

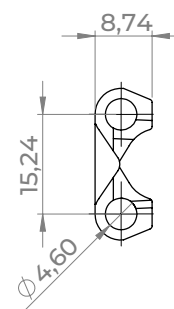
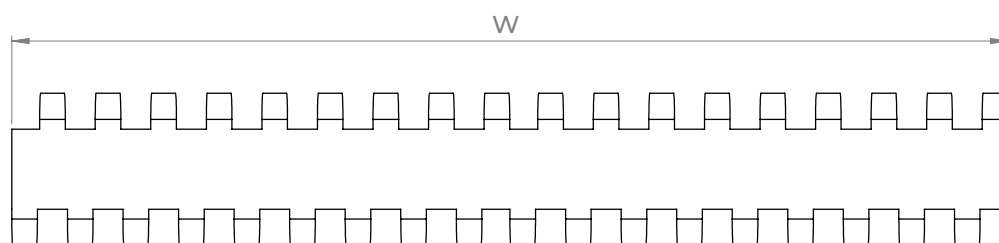


HC152 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	PE
Belt Strength	N/m lb/ft	17500 - 1200	17500 - 1200	15000 - 1030	7500 - 510	8500 - 580	4500 - 310
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +200	+5 / +93 +40 / +200	-70 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	6,4 / 1.31	6,7 / 1.37	6,2 / 1.28	4,3 / 0,89	4,8 / 0,98	4,4 / 0,90

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
23	0.90	50	2	100	4	150	6	-	-

Belt Width mm	76,2	101,6	127	152,4	177,8	203,2	228,6	254	279,4	304,8	330,2	355,6	381	406,4	431,8	457,2	482,6	508	533,4
Belt Width inch	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Belt Width mm	558,8	584,2																	
Belt Width inch	22	23																	



Product Features and Functional Benefits

- Flat top surface & small belt pitch
- Reduced polygon effect for smooth product transfer
- Suitable for wide range of applications for general conveyance
- Suitable for knife edge/nosebar applications

Important Notes

- Standard belt increments 25,4 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- For PE, PP, POM materials up to 750 mm (30") -1 mm to 2 mm and 0% to 0.4% for smaller belts.



HC152 FG

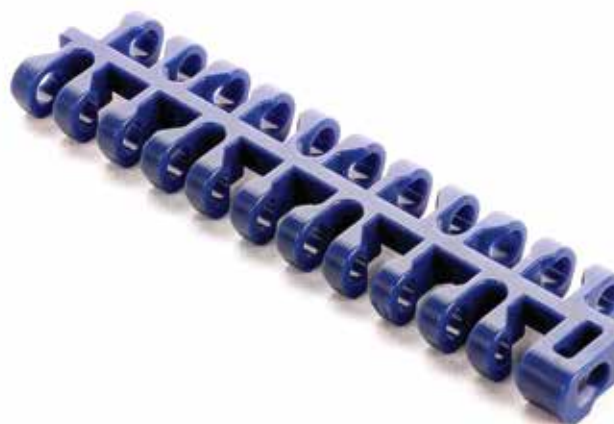
Modular Belt Series



MODUTECH[®]
Movement Technologies

HC152 FG

Pitch:	15,24 mm / 0,6 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	28%. (Biggest opening 7,2 x 2,2 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8,7 mm / 0.344 inch

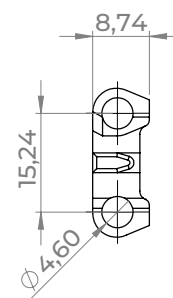
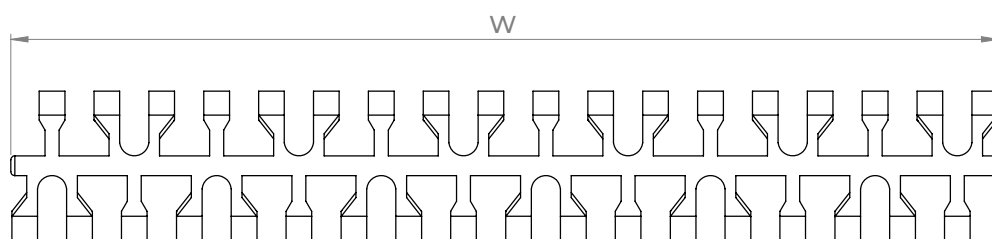


HC152 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PA
Pin Material		PA	POM	PP	PP	POM	PE	PA
Belt Strength	N/m lb/ft	22500 - 1540	22500 - 1540	20000 - 1370	10500 - 720	12000 - 820	7000 - 480	7000 - 480
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +200	+5 / +93 +40 / +200	-70 / +65 -40 / +150	-46 / 150 -46 / 302
Belt Weight	kg/m ² lb/sqft ²	6,5 / 1.34	6,8 / 1.39	6,2 / 1.28	4,3 / 0,89	4,9 / 1.0	4,6 / 0,95	5,6 / 1.14

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
23	0.90	50	2	100	4	150	6	-	-

Belt Width mm	76,2	101,6	127	152,4	177,8	203,2	228,6	254	279,4	304,8	330,2	355,6	381	406,4	431,8	457,2	482,6	508	533,4
Belt Width inch	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Belt Width mm	558,8	584,2																	
Belt Width inch	22	23																	

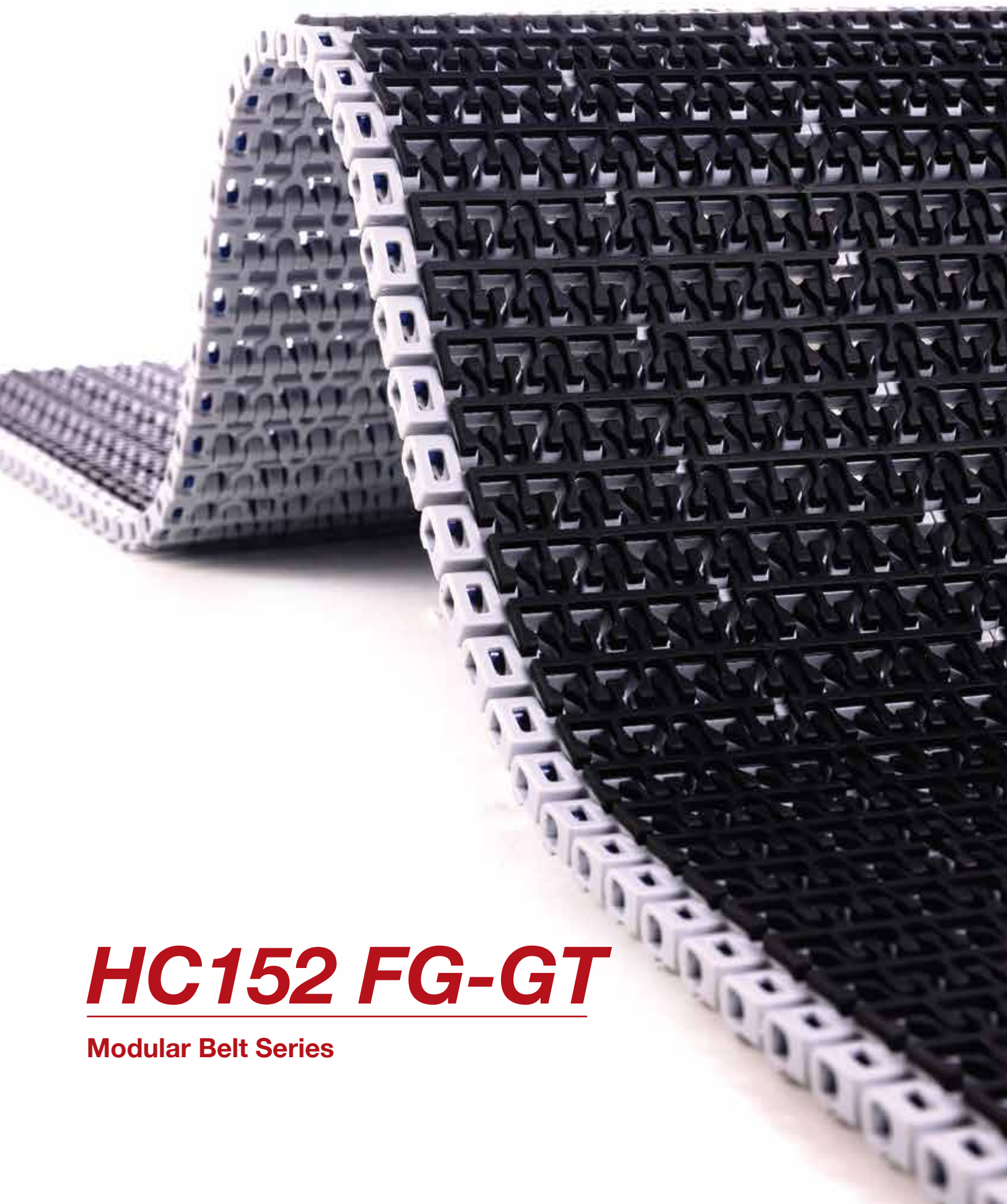


Product Features and Functional Benefits

- 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.
- Suitable for wide range of applications for general conveyance.
- Designed to run over nosebars/knife edges or rollers.

Important Notes

- Standard belt width increment 50,8mm (2").
- Non-standard belt width increment 12,7mm(0.5").
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.
- For PE, PP, POM materials up to 750 mm (30") -1 mm to 2 mm and 0% to 0.4% for smaller belts.



HC152 FG-GT

Modular Belt Series



MODUTECH®
Movement Technologies

HC152 FG-GT

Pitch:	15,24 mm / 0.6 inch
Belt Surface:	Open, Friction Surface
Minimum Width:	76,2 mm / 3.00 inch
Open Area (%):	28% (Biggest opening 7,2 x 2,2 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	10,9 mm / 0.430 inch

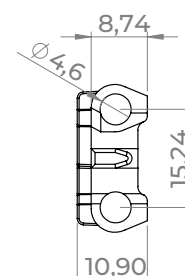
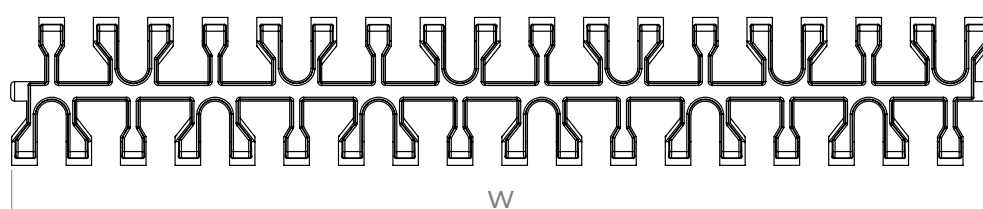


HC152 FG-GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	10500 - 720	12000 - 820
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m² lb/sqft²	5,6 / 1.15	6,2 / 1.27

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
23	0.90	50	2	100	4	150	6	-	-

Belt Width mm	76,2	101,6	127	152,4	177,8	203,2	228,6	254	279,4	304,8	330,2	355,6	381	406,4	431,8	457,2	482,6	508	533,4
Belt Width inch	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Belt Width mm	558,8	584,2																	
Belt Width inch	22	23																	



Product Features and Functional Benefits

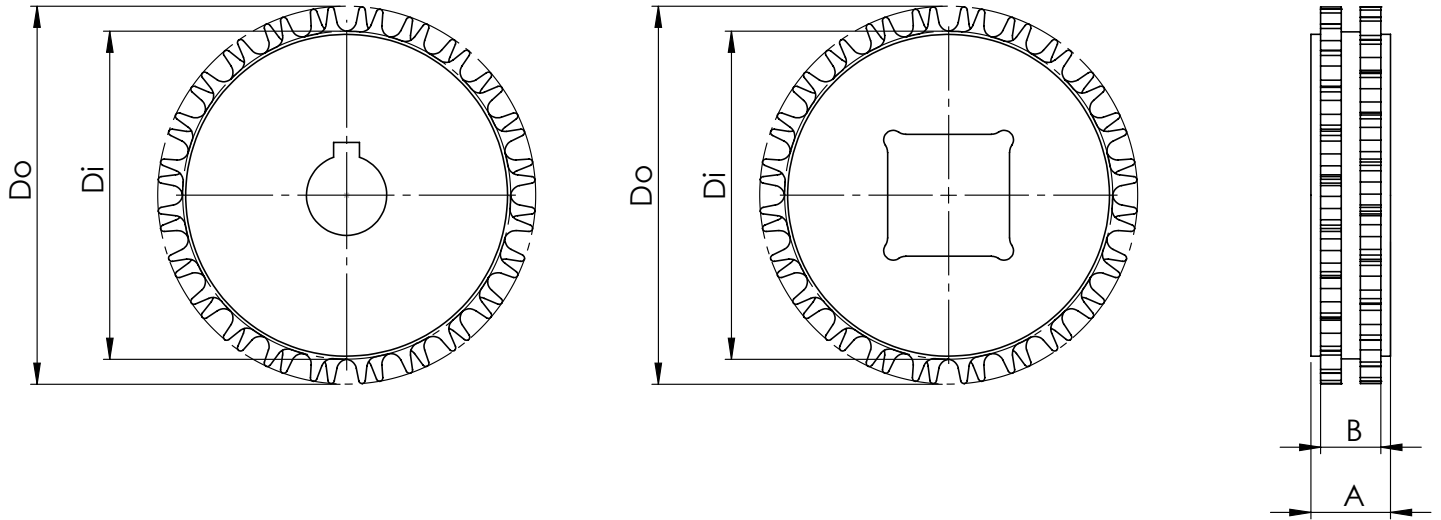
- Flush grid rubber top surface for incline/decline conveyors
- Strong and lightweight belt design.
- Belt provides optimal open area for drainage and airflow.
- Operational & Environmental conditions can affect the performance of rubber top surface
- Suitable for tight transfer and nosebar applications.
Minimum nosebar diameter 22mm (0.87")

Important Notes

- Standard belt increments 25,4 mm.
- Standard rubber indent: 8,6mm / 0,34inch
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.

HC152 Series

Sprockets and Technical Specifications



HC152 Series / Machined Sprocket Dimensions

NO.TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z12	44,06 / 1.73	59,43 / 2.34	25,00 / 0.98	18,9 / 0.74	25	1	25	1	HC152SQZ12*POM	HC152SRZ12*POM
Z16	63,82 / 2.51	79,22 / 3.12	25,00 / 0.98	18,9 / 0.74	40	1.5	25 to 30	1 to 1.25	HC152SQZ16*POM	HC152SRZ16*POM
Z20	83,42 / 3.28	98,96 / 3.90	25,00 / 0.98	18,9 / 0.74	40	1.5	25 to 30	1 to 1.25	HC152SQZ20*POM	HC152SRZ20*POM
Z24	102,96 / 4.05	118,65 / 4.67	25,00 / 0.98	18,9 / 0.74	40 to 60	1.5 to 2.5	25 to 30	1 to 1.25	HC152SQZ24*POM	HC152SRZ24*POM
Z32	141,94 / 5.59	157,37 / 6.20	25,00 / 0.98	18,9 / 0.74	40 to 60	1.5 to 2.5	25 to 30	1 to 1.25	HC152SQZ32*POM	HC152SRZ32*POM

*All required sprockets produced by CNC.

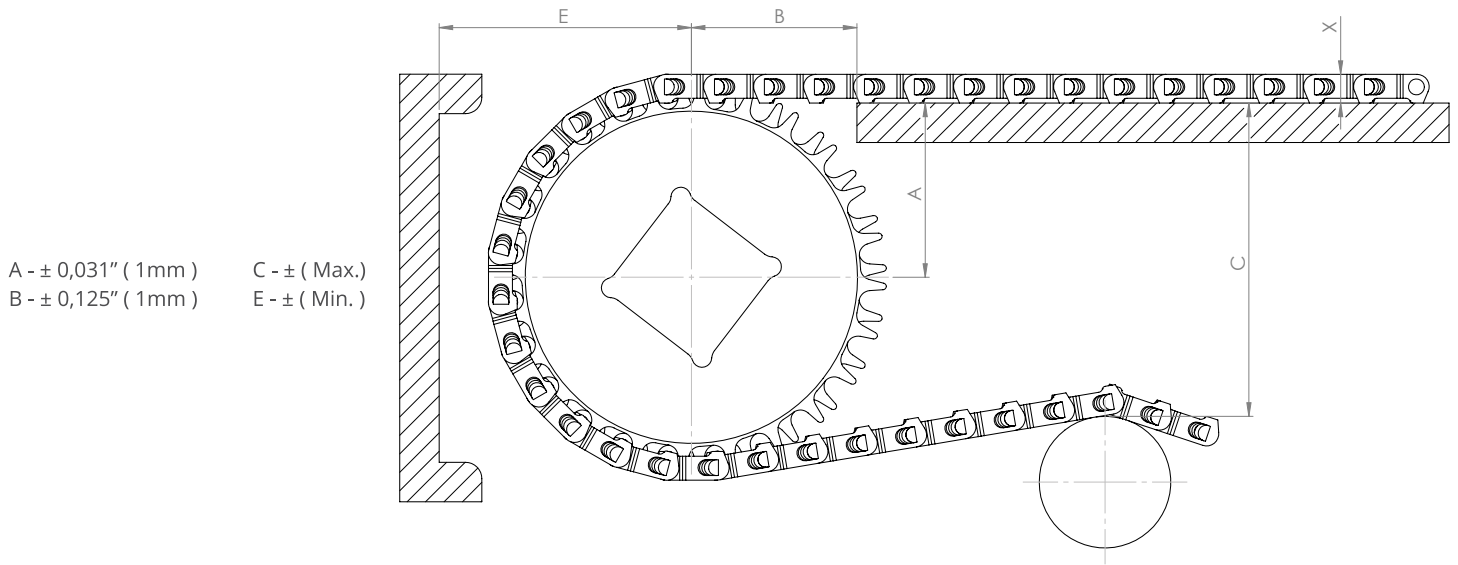
*Other sprockets and hub sizes are manufactured up to request.

*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available for each size.

HC152 Series

Sprockets and Technical Specifications

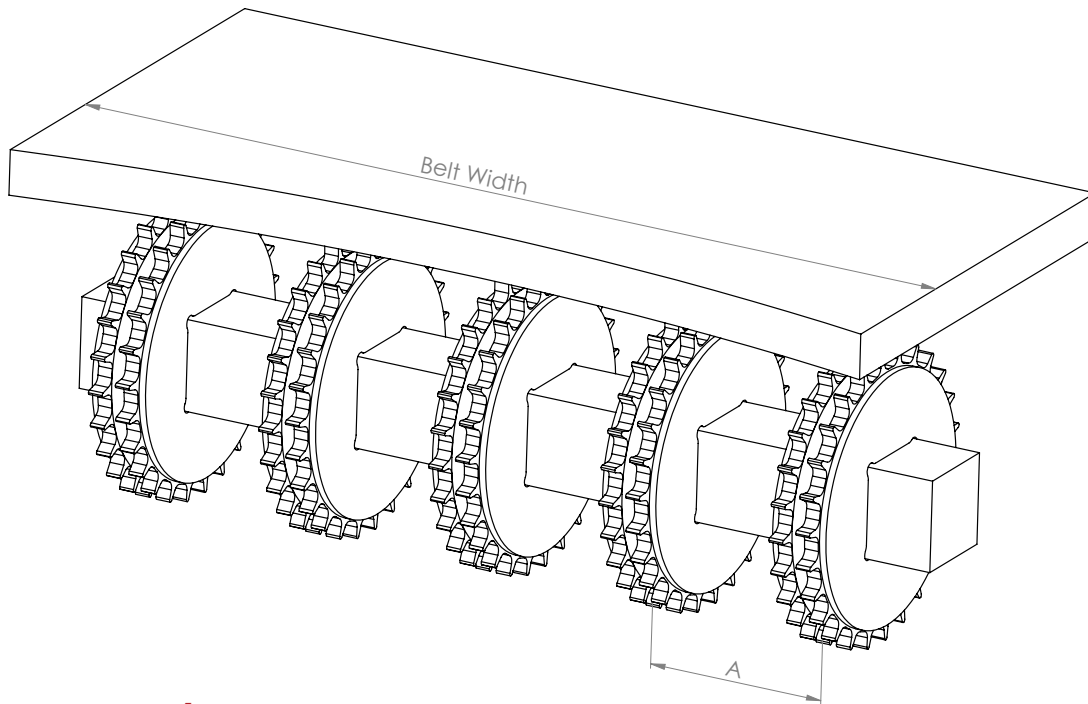


HC152 Series / Conveyor Frame Dimensions

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								
HC152 C , HC152 FG												
2.24	57	12	0.94	24	1.31	33	2.40	61	1.38	35	0.344	8,7
3.07	78	16	1.26	32	1.51	38	3.19	81	1.73	44	0.344	8,7
3.78	96	20	1.65	42	1.77	45	3.78	96	2.13	54	0.344	8,7
4.57	116	24	2.07	52,5	1.92	49	4.76	121	2.60	66	0.344	8,7
6.06	154	32	2.80	71	2.20	56	6.10	155	3.30	84	0.344	8,7
HC152 FG-GT												
2.24	57	12	0.94	24	1.30	33	2.36	60	1.45	37	0.43	10,9
3.07	78	16	1.26	32	1.55	29	3.11	79	1.85	47	0.43	10,9
3.78	96	20	1.65	42	1.77	45	3.86	98	2.00	51	0.43	10,9
4.57	116	24	2.07	52,5	1.92	50	4.64	118	2.20	56	0.43	10,9
6.06	154	32	2.80	71	2.25	57	6.18	157	2.79	71	0.43	10,9

HC152 Series

Engineering Information



HC152 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
76,2	3	1	2	2	51 / 2	102 / 4
101,6	4	1	2	2	51 / 2	102 / 4
127,0	5	2	2	2	51 / 2	102 / 4
152,4	6	2	2	2	51 / 2	102 / 4
177,8	7	2	3	2	51 / 2	102 / 4
203,2	8	2	3	2	51 / 2	102 / 4
228,6	9	3	3	2	51 / 2	102 / 4
254,0	10	3	3	2	51 / 2	102 / 4
279,4	11	3	3	2	51 / 2	102 / 4
304,8	12	3	3	2	51 / 2	102 / 4
330,2	13	5	4	3	51 / 2	102 / 4
355,6	14	5	4	3	51 / 2	102 / 4
381,0	15	5	4	3	51 / 2	102 / 4
406,4	16	5	4	3	51 / 2	102 / 4
431,8	17	5	4	3	51 / 2	102 / 4
457,2	18	5	4	3	51 / 2	102 / 4
482,6	19	5	4	3	51 / 2	102 / 4
508,0	20	5	5	3	51 / 2	102 / 4
533,4	21	7	5	3	51 / 2	102 / 4
558,8	22	7	5	3	51 / 2	102 / 4
584,2	23	7	5	3	51 / 2	102 / 4
609,6	24	7	5	3	51 / 2	102 / 4
635,0	25	7	5	3	51 / 2	102 / 4
660,4	26	9	5	3	51 / 2	102 / 4,
685,8	27	9	5	3	51 / 2	102 / 4
711,2	28	9	5	3	51 / 2	102 / 4
736,6	29	9	5	4	51 / 2	102 / 4
1066,8	42	11	8	5	51 / 2	102 / 4
1219,2	48	13	9	5	51 / 2	102 / 4
1524,0	60	15	11	6	51 / 2	102 / 4

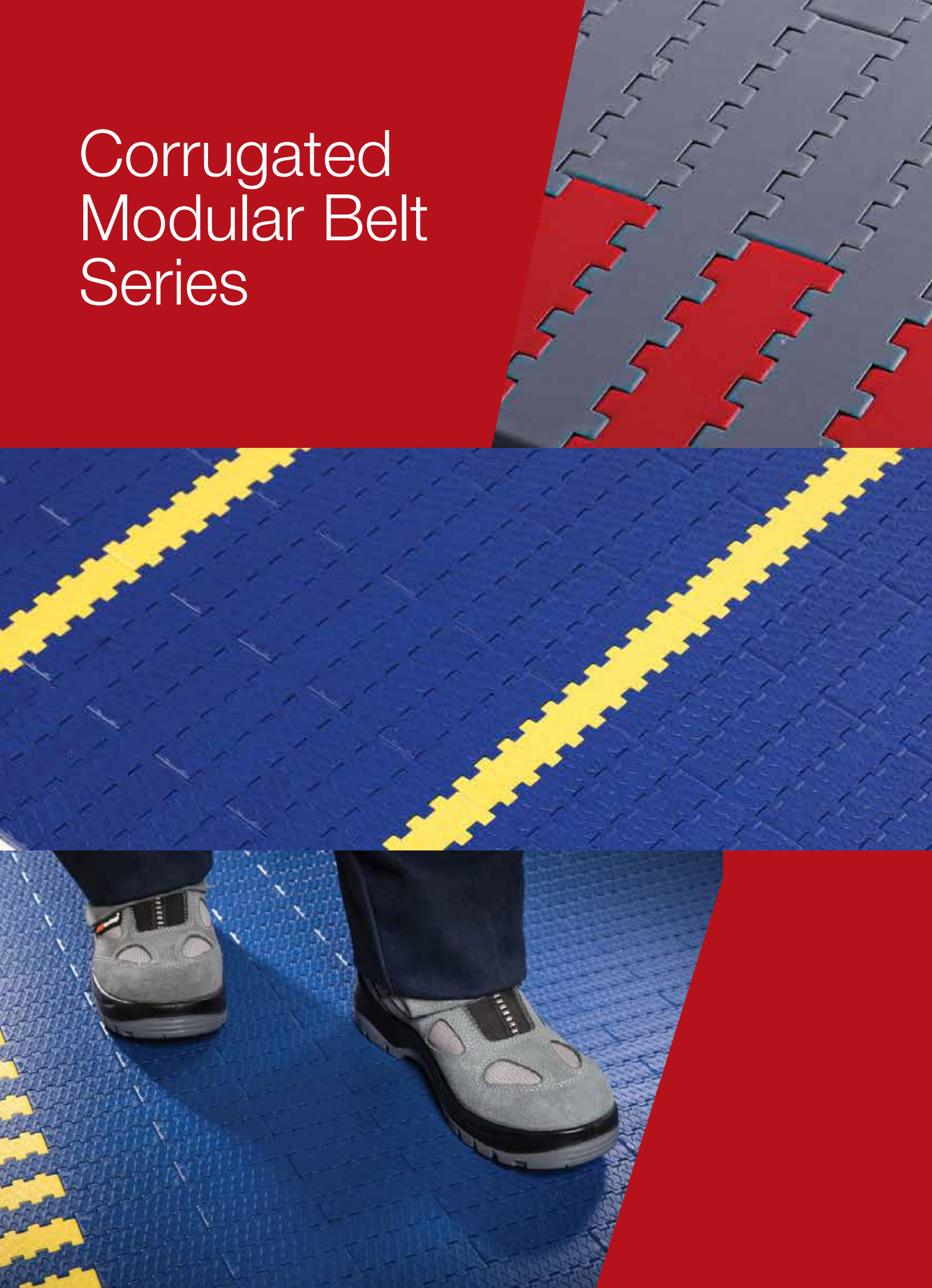
Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belts, central distance of sprockets should be maximum 101,6mm (4").

*For wider belts, central distance of carryway wearstrips maximum 152,4mm (6"), returnway wearstrips maximum 304,8mm (12").

Corrugated Modular Belt Series



XP254

Corrugated Belt Series

XP254 EVO CR

XP254 EVO FLT

XP254 Q FLT

XP254 LCR

Sprockets

Engineering Information





XP254 EVO CR

Corrugated Belt Series

Corrugated Cardboard Applications

Down Stackers, Corrugator Take Off, Strap Feed



**Safety first because
Modutech cares about you!**

Non-Skid surface offers safety through walking
for corrugated industry.

XP254 EVO CR

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Non Slip Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,5mm / 0.177 inch - Self Lock
Approved:	No
Color:	Blue / Gray / Yellow / Red
Cleanability:	Good
Belt Thickness:	9,3 mm / 0.366 inch



XP254 EVO CR Technical Information

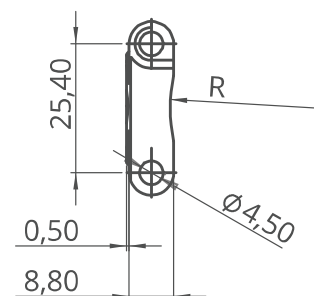
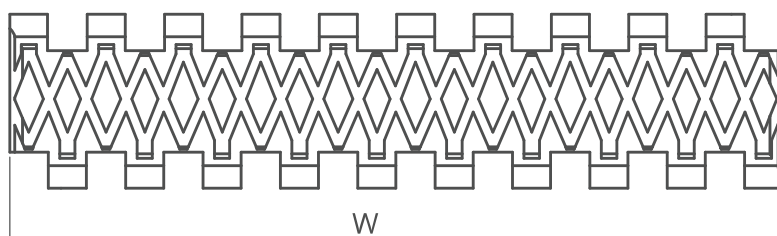
Belt Material	POM	
Pin Material	PA	
Belt Strength	N/m lb/ft	40250 - 2758
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	8.1 / 1.67

50mm Single Module Available.



Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	-	-	-	-

Belt Width mm	50,0	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	1.97	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0																	
Belt Width inch	57.00	60.00																	



Product Features and Functional Benefits

- Chamfered belt edges.
- Reinforced bottom surface - higher product load and longer conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Close transfer applications.
- Extra power, bi-directional belt for long conveyors.
- Safety walking top surface.

Important Notes

- Standard belt increments 76,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% bigger.
- Special raw materials and additional colors available.



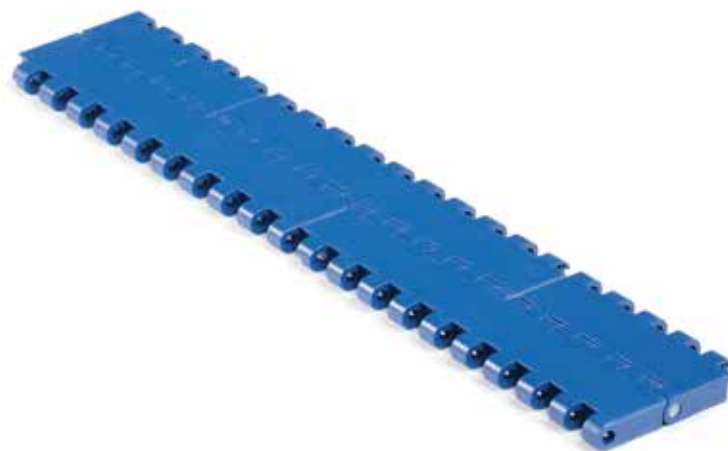
XP254 EVO FLT

Corrugated Belt Series

Corrugated Cardboard Applications
Down Stackers, Corrugator Take Off, Strap Feed

XP254 EVO FLT

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,5mm / 0.177 inch - Self Lock
Approved:	No
Color:	Blue / Gray / Yellow / Red
Cleanability:	Good
Belt Thickness:	8,8 mm / 0.346 inch

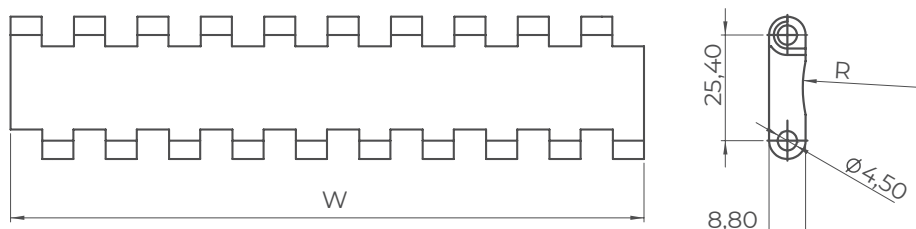


XP254 EVO FLT Technical Information

Belt Material	POM	
Pin Material	PA	
Belt Strength	N/m lb/ft	40250 - 2758
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	8.1 / 1.67

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	-	-	-	-

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00
Belt Width mm	1524,0	1600,0																	
Belt Width inch	60.00	63.00																	



Product Features and Functional Benefits

- Chamfered belt edges.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Close transfer applications.
- Extra power, bi-directional belt for long conveyors.

Important Notes

- Standard belt increments 76,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% bigger.
- Special raw materials and additional colors available.



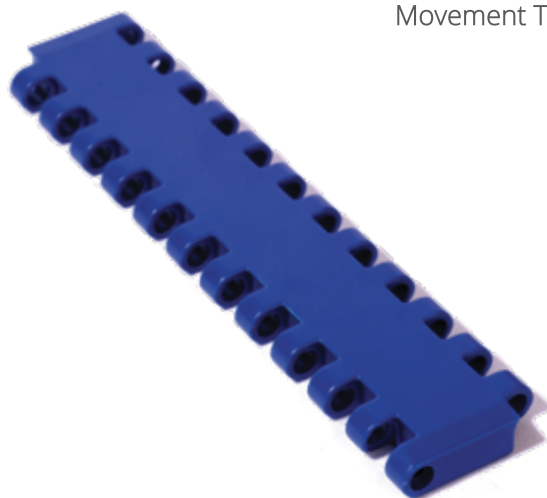
XP254 Q FLT

Corrugated Belt Series

Corrugated Cardboard Applications
Down Stackers, Corrugator Take Off, Strap Feed

XP254 Q-FLT

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / 6.0 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø 5 mm / 0.19 inch - Self Lock
Approved:	No
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8,8 mm / 0.346 inch



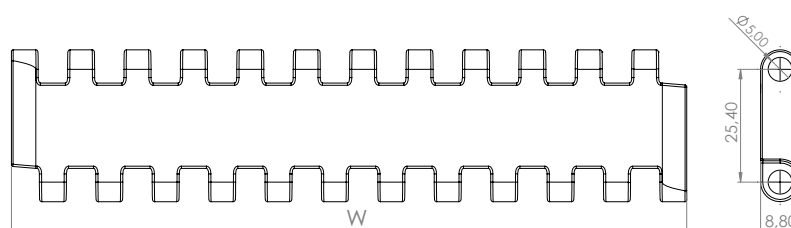
XP254 Q-FLT Technical Information

Belt Material		POM	POM
Pin Material		PA	POM
Belt Strength	N/m lb/ft	35000 - 2400	35000 - 2400
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200
Belt Weight	kg/m² lb/sqft²	8,6 / 1.8	8,6 / 1.8

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	40	1.57	100	4	-	-	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00

Special Belt Edge

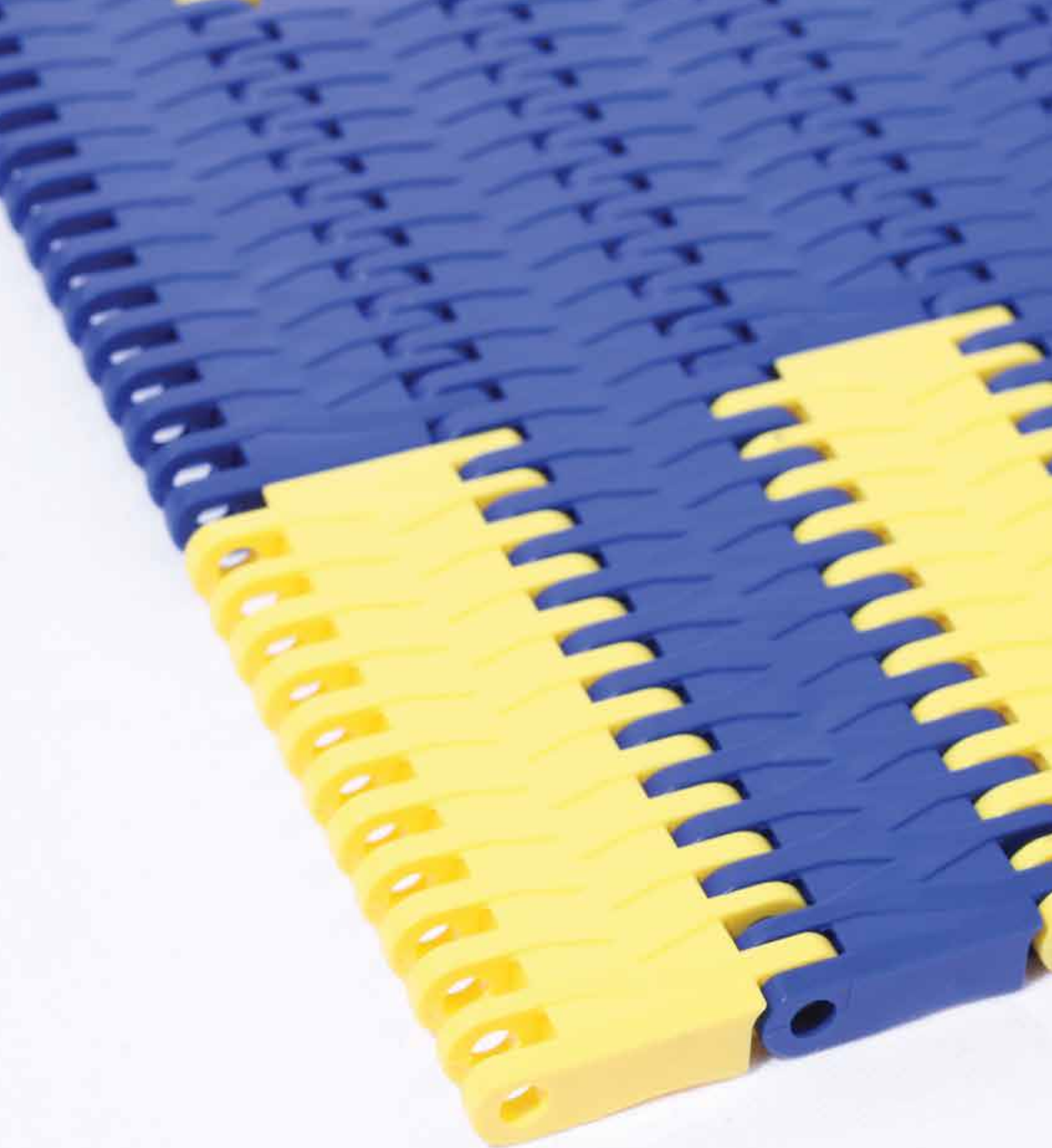


Product Features and Functional Benefits

- Flat top surface.
- Special belt edge for smooth product transfer.
- Unique sprocket engagement.

Important Notes

- Standard belt width increments 76,2 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- For POM material up to 750 mm (30") -3.0 mm to 0.0 mm and -0.40% to -0.35% for wider belts.



XP254 LCR

Corrugated Belt Series

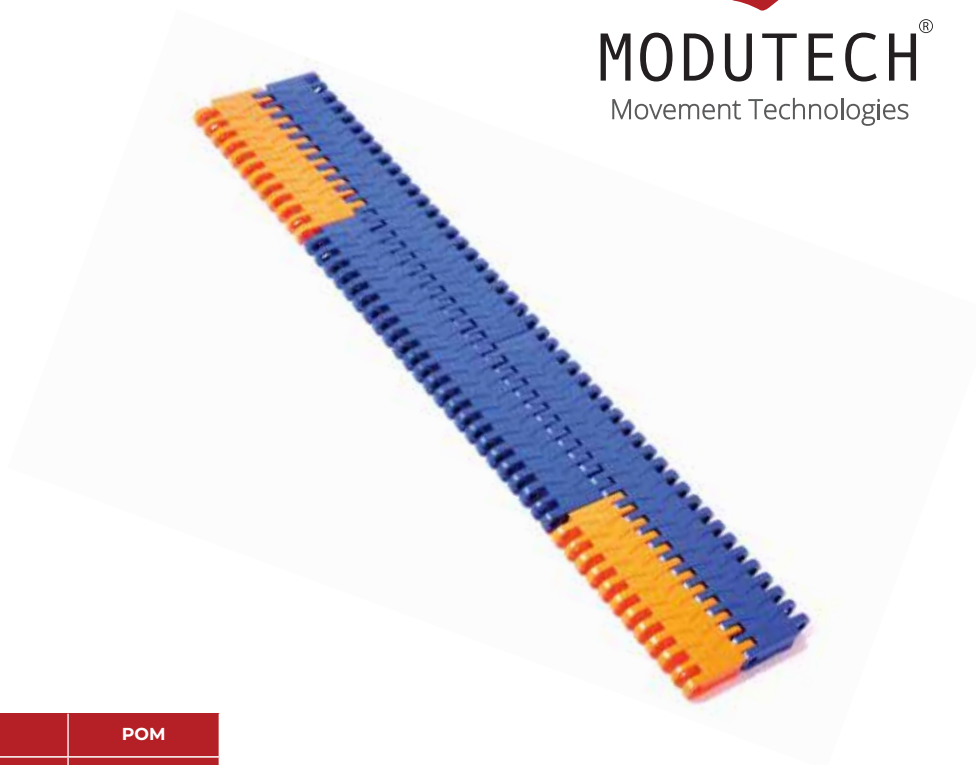
Corrugated Cardboard Applications
Down Stackers, Corrugator Take Off, Strap Feed



MODUTECH[®]
Movement Technologies

XP254 LCR

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Non Slip Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4 mm / 0.16 inch - Self Lock
Approved:	No
Color:	Blue / Orange
Cleanability:	Good
Belt Thickness:	8,4 mm / 0.33 inch

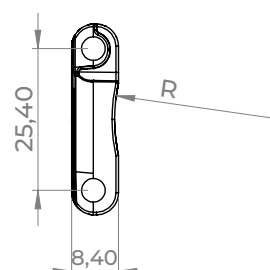
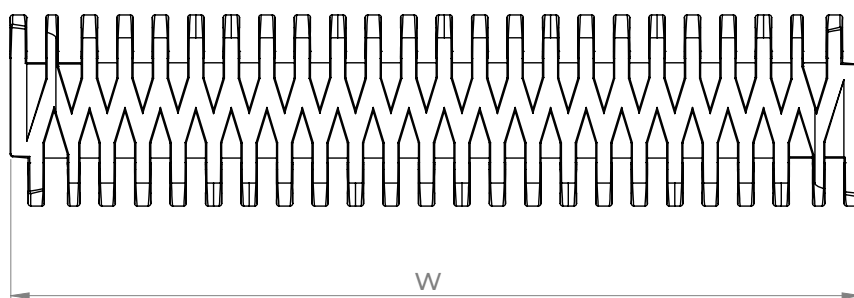


XP254 LCR Technical Information

Belt Material		POM
Pin Material		PA
Belt Strength	N/m lb/ft	36500 - 2500
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	5,9 / 1.2

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	-	-	-	-

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00
Belt Width mm	1524,0	1600,2																	
Belt Width inch	60.00	63.00																	



Product Features and Functional Benefits

- Chamfered belt edges.
- Reinforced bottom surface - high product load and longer conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Close transfer applications.
- Extra power, bi-directional belt for long conveyors.

Important Notes

- Standard belt increments 76,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% bigger
- Special raw materials and additional colors available..

XP254 Corrugated Belt Series

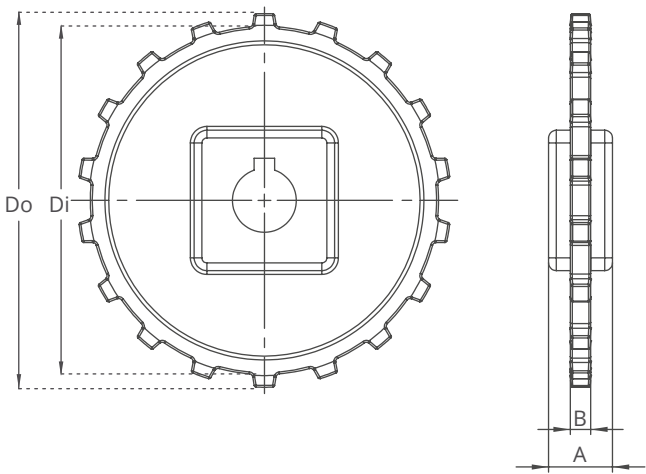
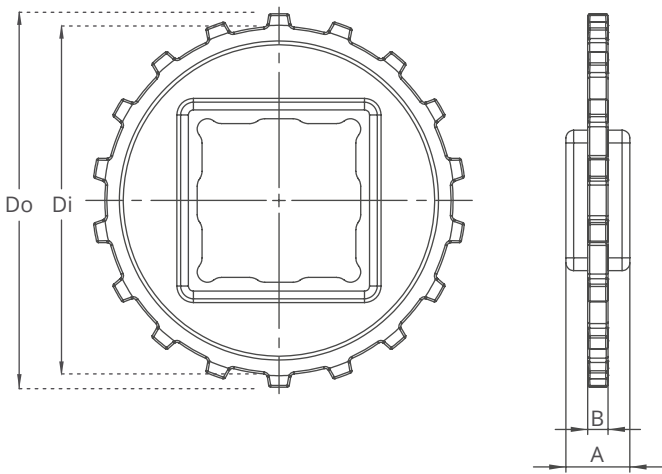
Sprockets and Technical Specifications



Z18



Z18



XP254 Corrugated Belt Series / Standard Sprockets Dimensions

 Split molded sprockets are available for the products with "Red" font color.

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)
Z8	53,2 / 2.09	64,0 / 2.52	8 / 0.31	25 / 0.98	25	-	25-30	1-1.25	XP254SQZ8*PA	XP254SRZ8*PA
Z10	71,5 / 2.82	81,2 / 3.2	8 / 0.31	25 / 0.98	25-40	1-1.5	25-30	1-1.25	XP254SQZ10*PA	XP254SRZ10*PA
Z12	88,1 / 3.50	98,1 / 3.86	8 / 0.31	25 / 0.98	40	1.5	25-30	1-1.25	XP254SQZ12*PA	XP254SRZ12*PA
Z15*	112,8 / 4.44	122,4 / 4.82	8 / 0.31	25 / 0.98	40-60	1.5-2.5	25-30	1-1.25	XP254SQZ15*PA	XP254SRZ15*PA
Z18*	136,4 / 5.37	146,4 / 5.76	8 / 0.31	25 / 0.98	40-60	1.5-2.5	25-30	1-1.25	XP254SQZ18*PA	XP254SRZ18*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 available for each size.



Clamp



Machined Split Sprocket



Moulded Sprocket



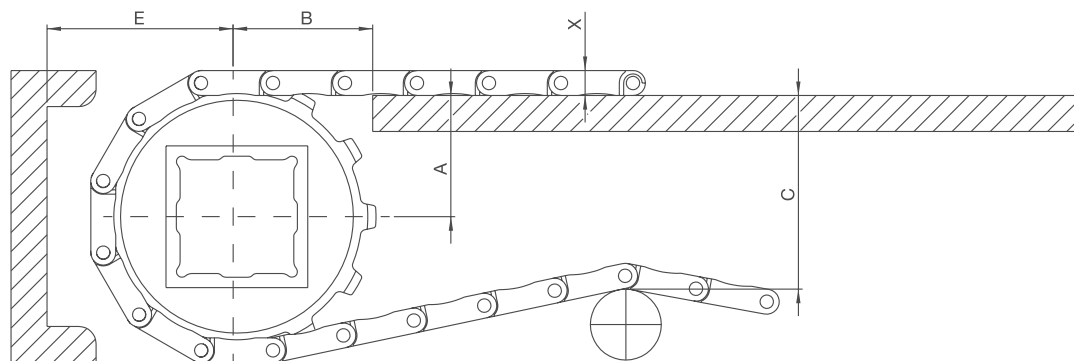
Machined Sprocket

XP254 Corrugated Belt Series

Engineering Information

A - $\pm 0,031"$ (1mm)
B - $\pm 0,125"$ (3mm)

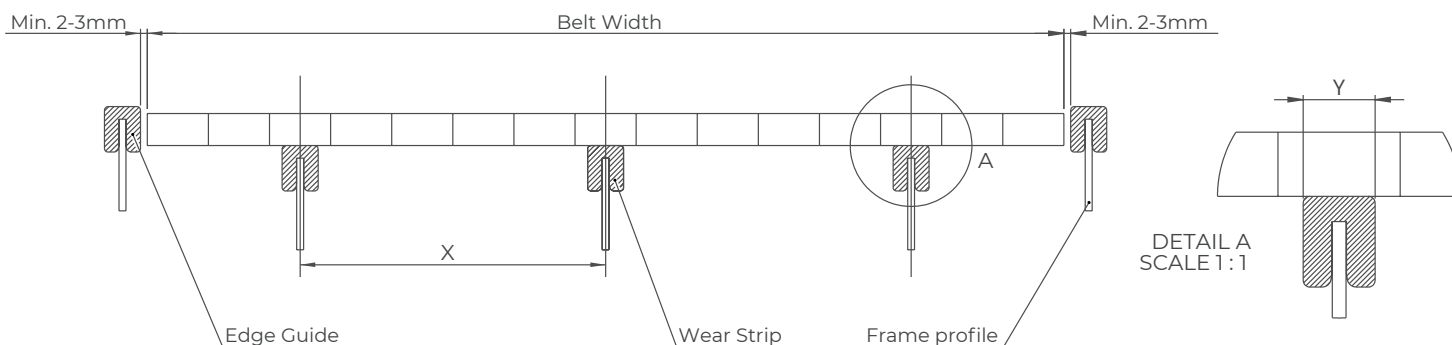
C - $\pm$ (Max.)
E - $\pm$ (Min.)



XP254 Corrugated Belt 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								
XP254 EVO FLT, XP254 Q FLT												
2.32	59,0	8	1.17	29,8	1.43	36,5	1.94	49,3	1.91	48,6	0.35	8,8
2.99	76,0	10	1.47	37,0	1.69	42,9	2.57	65,4	2.21	56,2	0.35	8,8
3.59	91,2	12	1.79	45,5	1.86	47,3	3.19	81,1	2.53	64,3	0.35	8,8
4.65	118,0	15	2.22	56,3	2.13	54,1	4.15	105,3	2.96	75,1	0.35	8,8
5.67	144,0	18	2.71	69,0	2.31	58,7	5.16	131,0	3.45	87,8	0.35	8,8
XP254 EVO CR												
2.32	59,0	8	1.17	29,8	1.44	36,5	1.94	49,3	1.91	48,6	0.37	9,3
2.99	76,0	10	1.47	37,0	1.69	42,9	2.57	65,4	2.21	56,2	0.37	9,3
3.59	91,2	12	1.79	45,5	1.86	47,3	3.19	81,1	2.53	64,3	0.37	9,3
4.65	118,0	15	2.22	56,3	2.13	54,1	4.15	105,3	2.96	75,1	0.37	9,3
5.67	144,0	18	2.71	69,0	2.31	58,7	5.16	131,0	3.45	87,8	0.37	9,3
XP254 LCR												
2.32	59,0	8	1.17	29,8	1.44	36,5	1.94	49,3	1.91	48,6	0.33	8,4
2.99	76,0	10	1.47	37,0	1.69	42,9	2.57	65,4	2.21	56,2	0.33	8,4
3.59	91,2	12	1.79	45,5	1.86	47,3	3.19	81,1	2.53	64,3	0.33	8,4
4.65	118,0	15	2.22	56,3	2.13	54,1	4.15	105,3	2.96	75,1	0.33	8,4
5.67	144,0	18	2.71	69,0	2.31	58,7	5.16	131,0	3.45	87,8	0.33	8,4

XP254 Corrugated Belt Series / Slider Support System For Straight Running Belts



Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

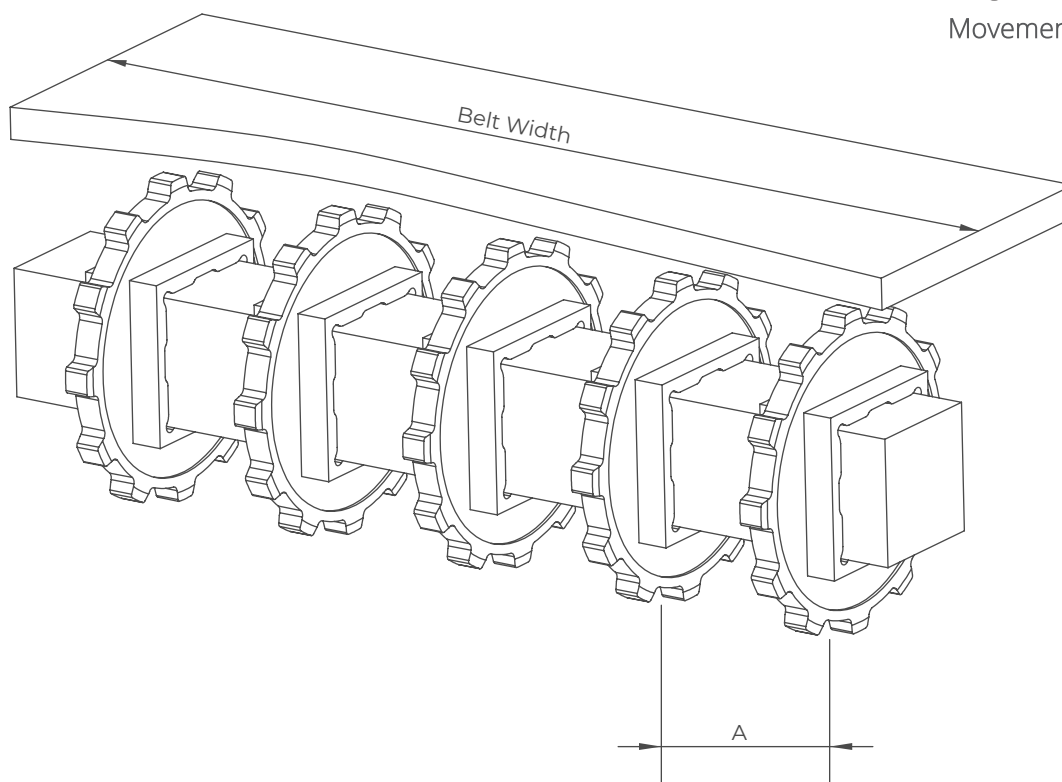
For specific applications, please contact with Modutech representatives.

XP254 Corrugated Belt Series

Engineering Information



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Movement Technologies



XP254 Corrugated Belt Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
152,4	6.0	2	2	60 / 2.36	170 / 6.6
228,6	9.0	2	2	60 / 2.36	170 / 6.6
304,8	12.0	3	2	60 / 2.36	170 / 6.6
381,0	15.0	4	3	60 / 2.36	170 / 6.6
457,2	18.0	5	3	60 / 2.36	170 / 6.6
533,4	21.0	5	3	60 / 2.36	170 / 6.6
609,6	24.0	6	3	60 / 2.36	170 / 6.6
685,8	27.0	6	4	60 / 2.36	170 / 6.6
762,0	30.0	7	4	60 / 2.36	170 / 6.6
838,2	33.0	7	4	60 / 2.36	170 / 6.6
914,4	36.0	8	4	60 / 2.36	170 / 6.6
990,6	39.0	8	5	60 / 2.36	170 / 6.6
1066,8	42.0	9	5	60 / 2.36	170 / 6.6
1143,0	45.0	9	5	60 / 2.36	170 / 6.6
1219,2	48.0	10	5	60 / 2.36	170 / 6.6
1295,4	51.0	10	6	60 / 2.36	170 / 6.6
1371,6	54.0	11	7	60 / 2.36	170 / 6.6
1447,8	57.0	11	7	60 / 2.36	170 / 6.6
1524,0	60.0	12	7	60 / 2.36	170 / 6.6
1600,2	63.0	12	8	60 / 2.36	170 / 6.6
1676,4	66.0	12	8	60 / 2.36	170 / 6.6
1752,6	69.0	13	8	60 / 2.36	170 / 6.6
1828,8	72.0	14	9	60 / 2.36	170 / 6.6
1905,0	75.0	14	9	60 / 2.36	170 / 6.6
1981,2	78.0	15	10	60 / 2.36	170 / 6.6
2057,4	81.0	15	10	60 / 2.36	170 / 6.6

Note: Number of sprockets depends on the belt load.

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doc:2

THE

PEOPLE

NETWORK

XP254

Modular Belt Series

XP254 C

XP254 PR4%

XP254 PR 22%

XP254 FG

XP254 GT / Friction Top

XP254 BT / Ball Top

Sprockets & Accessories

Engineering Information





MODUTECH[®]
MODULAR BELT SYSTEMS
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XP254 C

Modular Belt Series

- **Seafood Applications**

Inspection Tables, Grading Lines, Trim Lines

- **Bakery Applications**

Raw Dough Handling, Cooling Lines, Packing Lines

- **Snack Food Applications**

Corn Processing

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control - Sorting Table

- **Tire Manufacturing Applications**

Mixer Infeed - Outfeed, Calendering Infeed, Extrusion Outfeed

- **Packaging Applications**

Labelling, Case Packers, Tray Packers, Palletizing - Depalletizing

- **Printing and Paper Applications**

Printing Machine Outfeed, Wrapping Machine Outfeed

- **Beverages and Bottling Applications**

Can Palletizing and Depalletizing, Glass Palletizing and Depalletizing,

Pet Palletizing and Depalletizing

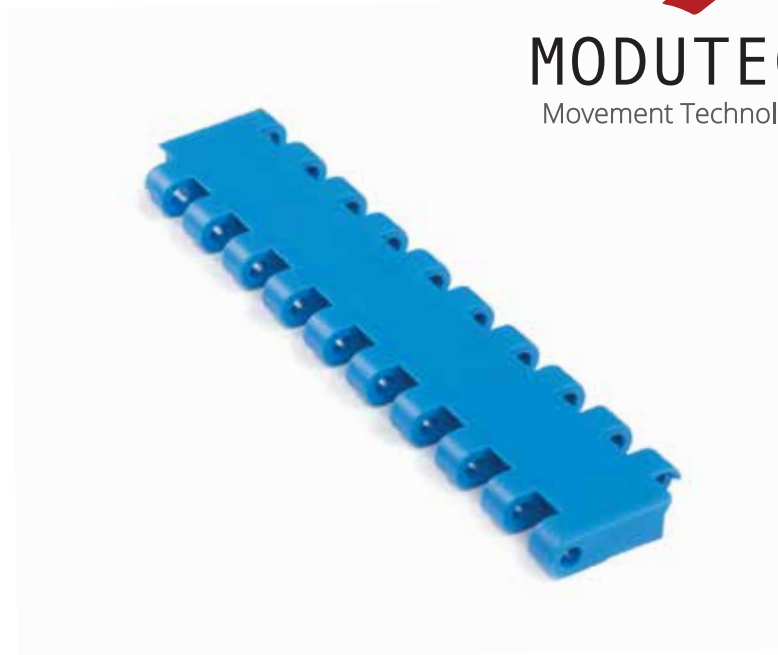
- **Material Handling Applications**

Incline Applications, Palletizers, Packaging Lines



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XP254 C



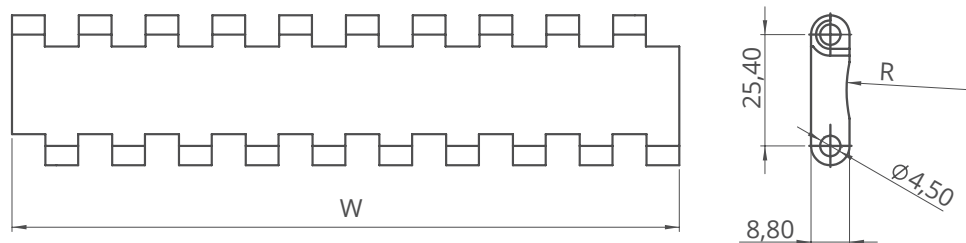
Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	No
Pin:	Ø4,5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8.8 mm / 0.346 inch

XP254 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	30000 - 2055	17200 - 1178	18500 - 1267	9100 - 623
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m² lb/sqft²	8.7 / 1.78	8.7 / 1.78	8.7 / 1.78	5.7 / 1.17	5.7 / 1.17	6.0 / 1.23

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1371,6
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	54.00
Belt Width mm	1447,8	1524,0	1600,2														
Belt Width inch	57.00	60.00	63.00														

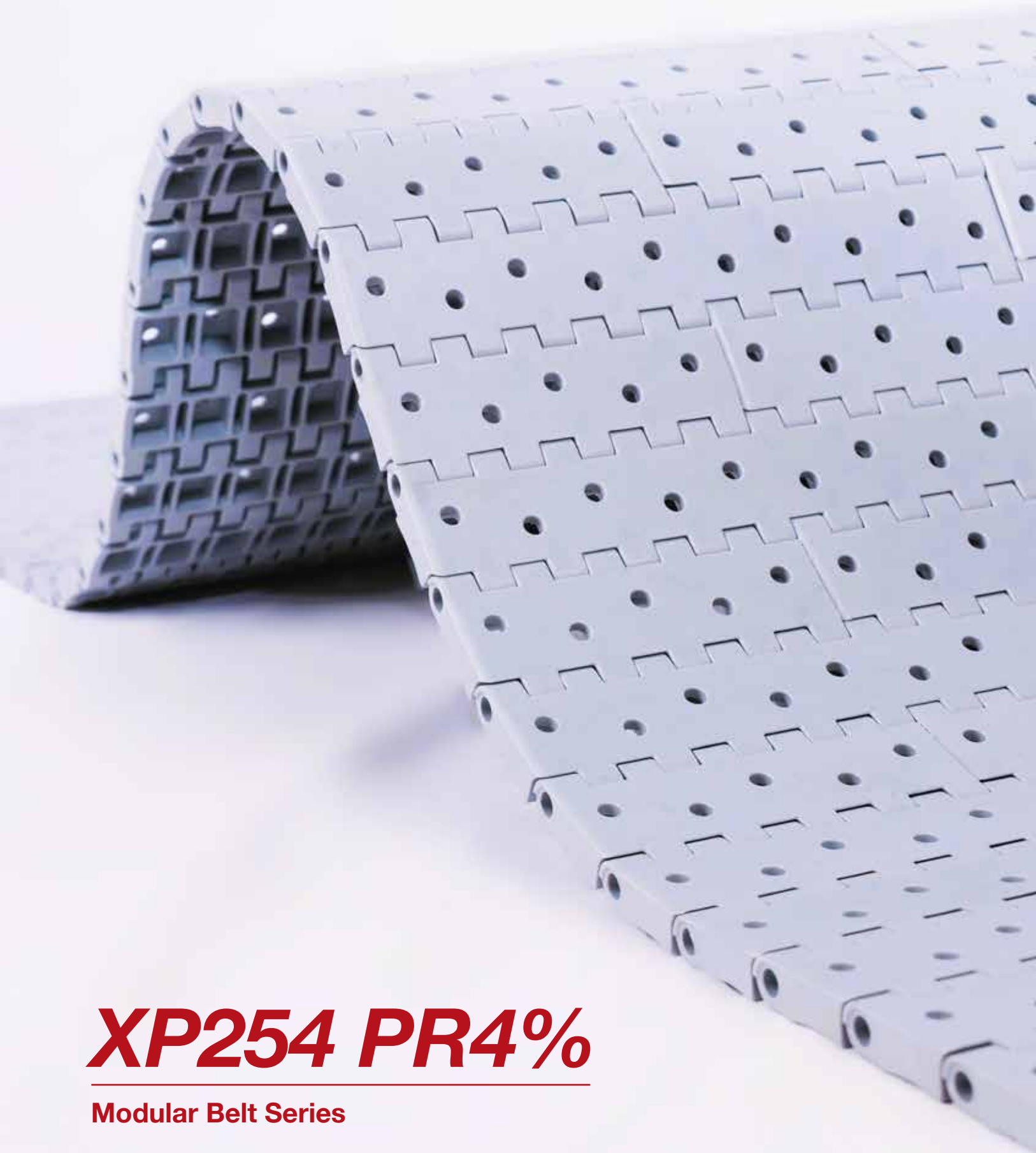


Product Features and Functional Benefits

- Unique sprocket engagement - higher product load and longer conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Close transfer applications.
- Extra power, bi-directional belt for long conveyors.
- Chamfered belt edges.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.
- For POM material up to 750 mm (30") -2 mm to 1 mm and -0.2% to 0.2% for wider belts.
- Special raw materials and additional colors available.



XP254 PR4%

Modular Belt Series



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Movement Technologies

XP254 PR4%

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	4%. (Biggest opening Ø4 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 4,5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8.8 mm / 0.346 inch

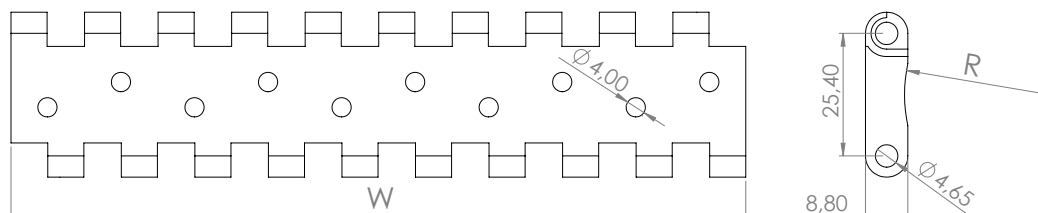


XP254 PR4% Technical Information

Belt Material		POM	POM	POM	PP	PP	PA
Pin Material		PA	POM	PP	PP	POM	PA
Belt Strength (Curve)	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	28000 - 1918
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-46 / +116 -50 / +266
Belt Weight	kg/m ² lb/sqft ²	8,6 / 1.8	8,6 / 1.8	8,6 / 1.8	5,6 / 1.2	5,6 / 1.2	5,9 / 1.2

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8	1524,0	1600,2
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00	60.00	63.00



Product Features and Functional Benefits

- Perforated flat top surface.
- Hole openings to optimize performance in special cooling and draining applications.
- Unique sprocket engagement.
- Food approved materials.

Important Notes

- Standard belt increments 76,2 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.



XP254 PR22%

Modular Belt Series

- **Meat and Poultry Applications**

General Conveyance and Breeding Lines

- **Fruit and Vegetable Application**

Elevators, Steam Peeler, Inspection Tables, Blanching Lines

- **Seafood Applications**

Elevators, Inspection Tables, Grading Lines, Trim Lines, Glazing Lines, Cooking Lines

- **Bakery Applications**

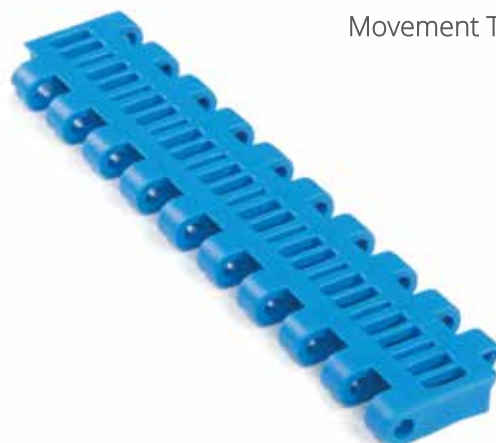
Raw Dough Handling, Cooling Lines, Icing Lines, Packing Lines, Metal Detectors



MODUTECH[®]
Movement Technologies

XP254 PR22%

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	22%. (Biggest opening 9,44 x 3 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø4,5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8.8 mm / 0.346 inch

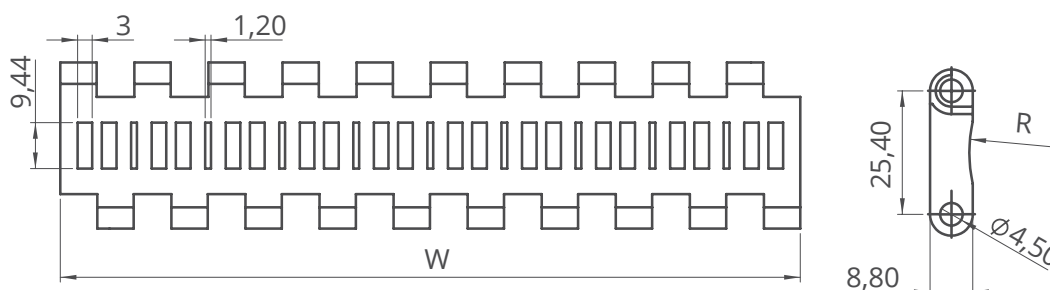


XP254 PR22% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	30000 - 2055	17000 - 1165	17000 - 1165	9100 - 623
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m² lb/sqft²	7.9 / 1.62	7.9 / 1.62	7.9 / 1.62	4.9 / 1.00	4.9 / 1.00	5.2 / 1.07

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1371,6
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	54.00
Belt Width mm	1447,8	1524,0	1600,2														
Belt Width inch	57.00	60.00	63.00														



Product Features and Functional Benefits

- Unique sprocket engagement - precise indexing, easy cleaning.
- Different openings to optimize performance in cooling and draining applications.
- Extra power, bi-directional belt for long conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Chamfered belt edges.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Special raw materials and additional colors available.



XP254 FG

Modular Belt Series

- **Seafood Applications**

Breeding Machines, Draining Lines, Glazing Lines, Elevators, Freezing Lines

- **Snack Food Applications**

Proofer Lines, Boiler Infeed, Oven Infeed - Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Prewashing - Rinsing, Draining, Blanching Lines, Elevators

- **Packaging Applications**

Filling, Accumulation Palletizing - Depalletizing, Box Transfer

- **Textile Applications**

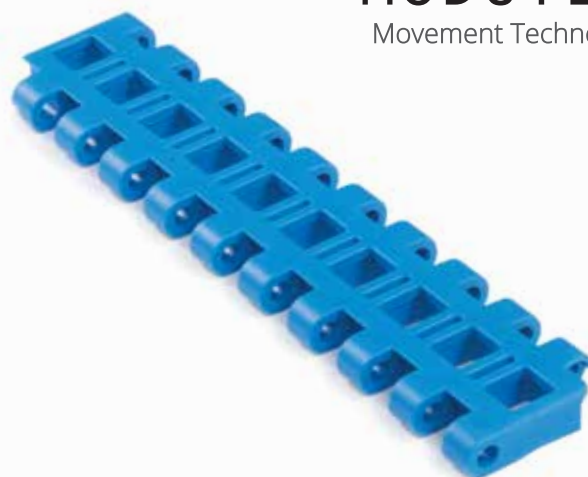
Cutter, Dyeing

XP254 FG



MODUTECH[®]
Movement Technologies

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	28%. (Biggest opening 8,44 x 9,44 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø4,5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8.8 mm / 0.346 inch

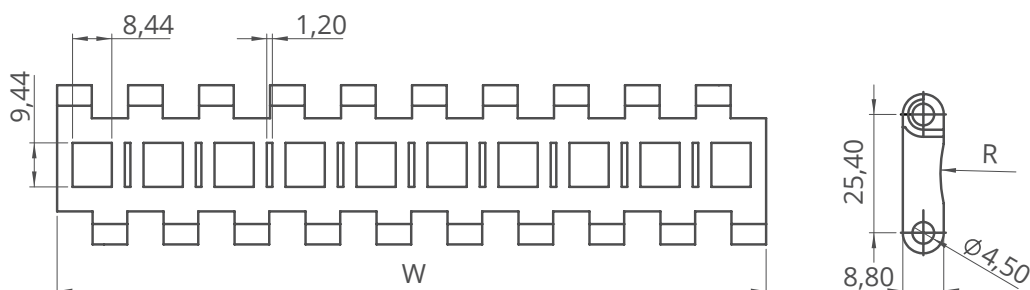


XP254 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	30000 - 2055	17200 - 1165	17000 - 1165	9100 - 623
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m ² lb/sqft ²	7.9 / 1.62	7.9 / 1.62	7.9 / 1.62	4.9 / 1.00	4.9 / 1.00	5.2 / 1.07

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00
Belt Width mm	1371,6	1447,8	1524,0	1600,2													
Belt Width inch	54.00	57.00	60.00	63.00													



Product Features and Functional Benefits

- Unique sprocket engagement - precise indexing, easy cleaning.
- Different openings to optimize performance in cooling and draining applications.
- Extra power, bi-directional belt for long conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Chamfered belt edges.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Special raw materials and additional colors available.

A close-up photograph of a blue conveyor belt with a black friction top. The belt is curved, showing the repeating pattern of the friction top. The background is a plain, light-colored surface.

XP254 GT

Friction Top

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

- **Material Handling Applications**

Incline Applications, Palletizers, Packaging Lines

XP254 GT (Friction Top)

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Friction Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø4,5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Good
Belt Thickness:	11,8 mm / 0.465 inch



MODUTECH®
Movement Technologies

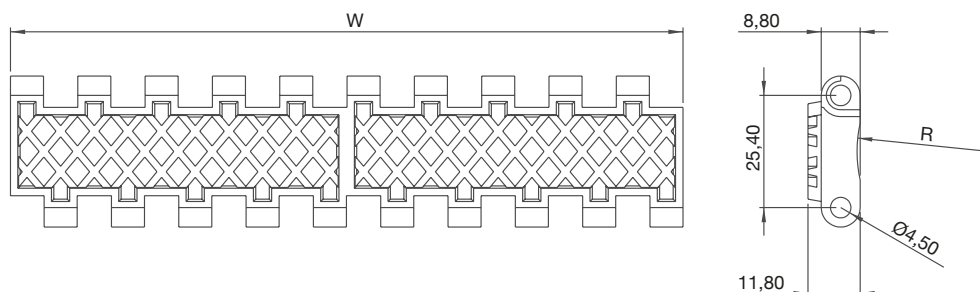


XP254 GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	16200 - 1110	16200 - 1110
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m² lb/sqft²	6.9 / 1.42	6.9 / 1.42

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00
Belt Width mm	1016,0	1066,8	1117,6	1168,4													
Belt Width inch	40.00	42.00	44.00	46.00													



Product Features and Functional Benefits

- Unique sprocket engagement - higher product load and longer conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Unique rubber top eliminates wear and increases friction in incline-decline applications.
- Extra power, bi-directional belt for long conveyors.
- Chamfered belt edges.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Special raw materials and additional colors available.



XP254 BT*

Ball Top

Modular Belt Series

- **Logistic Centers Applications**

Material Handling, Sorting, Packaging

- **Corrugated Cardboard Applications**

Down Stackers, Corrugator Take Off, Strap Feed

*This product is not available in the following countries: Italy, Germany, Great Britain, the Netherlands, and Spain.



MODUTECH[®]
Movement Technologies

XP254 BT* (Ball Top)

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Ball Top Surface
Minimum Width:	76,2 mm / 3 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø4,5 mm / 0.177 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / Gray
Cleanability:	Good
Belt Thickness:	12,7 mm / 0.5 inch

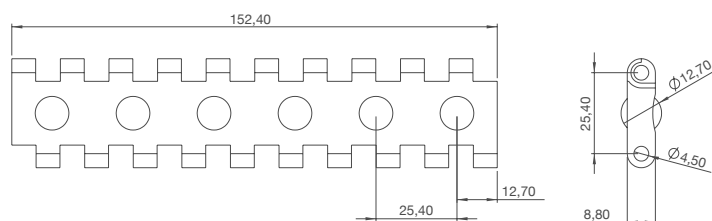


XP254 BT Technical Information

Belt Material		POM
Ball Material		PA
Pin Material		PA
Belt Strength	N/m lb/ft	29500 - 1984
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	9.6 / 1.97

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	-	-	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2	1676,4													
Belt Width inch	57.00	60.00	63.00	66.00													



Product Features and Functional Benefits

- Unique sprocket engagement - higher product load and longer conveyors.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Designed for multi-directional product handling.
- Extra power, bi-directional belt for long conveyors.
- Chamfered belt edges.

Important Notes

- **Standard belt increments 76,2 mm.**
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Special raw materials and additional colors available.

XP254 Series

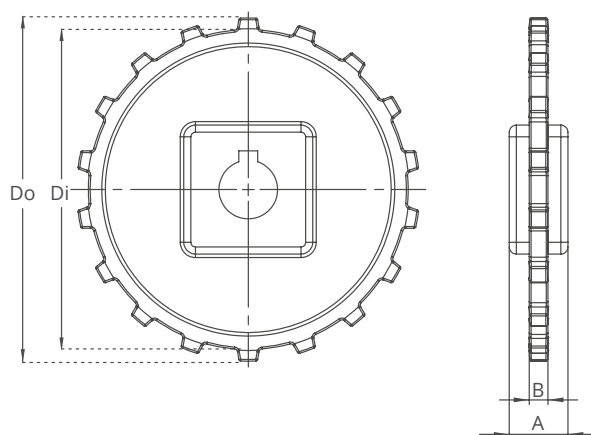
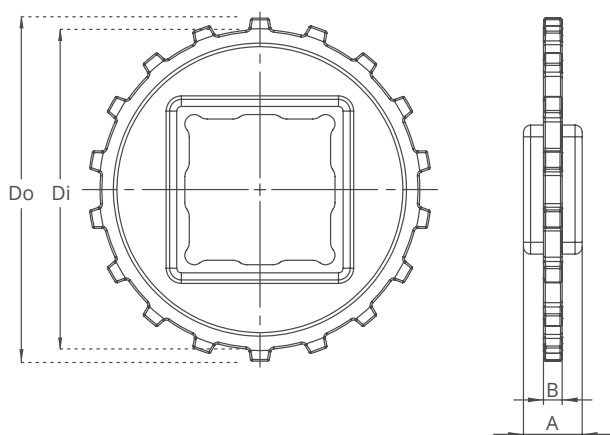
Sprockets and Technical Specifications



Z18



Z18



Split molded sprockets are available for the products with "Red" font color.

XP254 Series / Standard 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)
Z8	53,2 / 2.09	64,0 / 2.52	8 / 0.31	25 / 0.98	25	-	25-30	1-1.25	XP254SQZ8*PA	XP254SRZ8*PA
Z10	71,5 / 2.82	81,2 / 3.2	8 / 0.31	25 / 0.98	25-40	1-1.5	25-30	1-1.25	XP254SQZ10*PA	XP254SRZ10*PA
Z12	88,1 / 3.50	98,1 / 3.86	8 / 0.31	25 / 0.98	40	1.5	25-30	1-1.25	XP254SQZ12*PA	XP254SRZ12*PA
Z15*	112,8 / 4.44	122,4 / 4.82	8 / 0.31	25 / 0.98	40-60	1.5-2.5	25-30	1-1.25	XP254SQZ15*PA	XP254SRZ15*PA
Z18*	136,4 / 5.37	146,4 / 5.76	8 / 0.31	25 / 0.98	40-60	1.5-2.5	25-30	1-1.25	XP254SQZ18*PA	XP254SRZ18*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 available for each size.



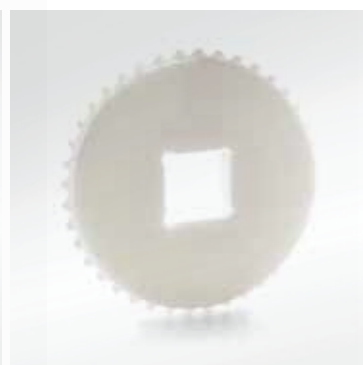
Clamp



Machined Split Sprocket



Moulded Sprocket



Machined Sprocket

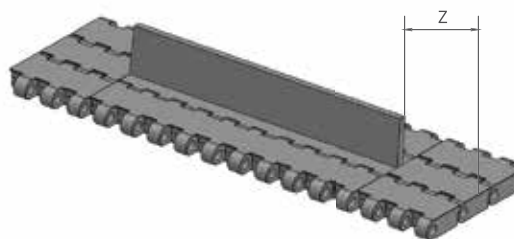
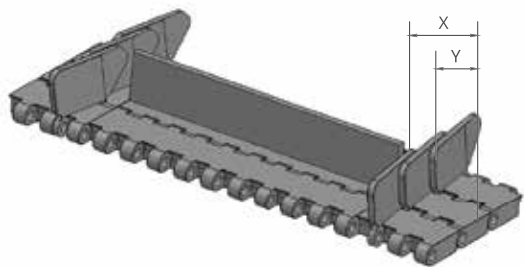
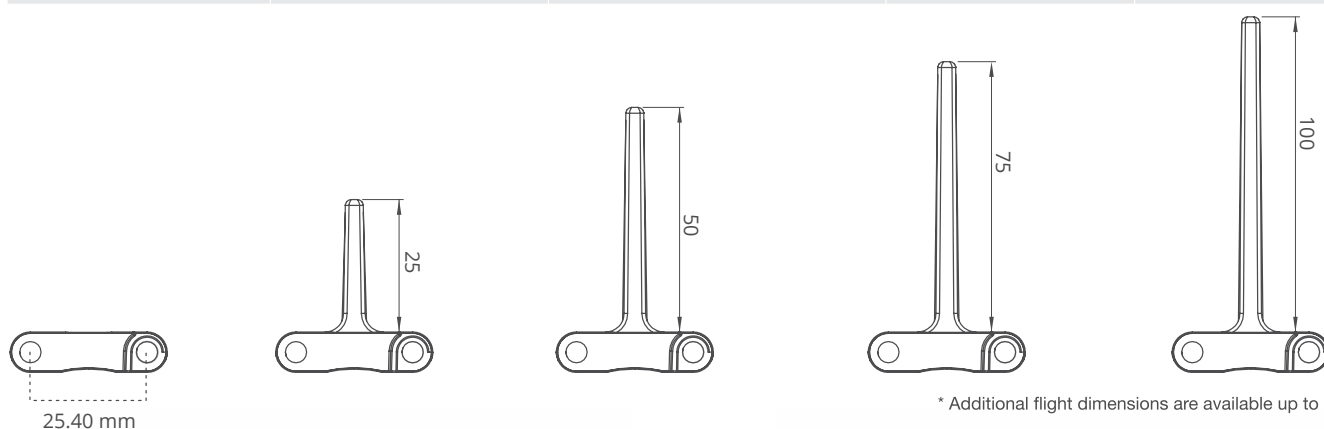
XP254 Series

Accessories and Technical Specifications



XP254 Series / Flight & Sidewall Dimensions

XP254 Series / Flights & Sidewalls				
PRODUCT CODE	Flight Height (mm/inch)	Flight Width (mm/inch)	PRODUCT CODE	Sidewall Height (mm/inch)
-	-	-	XP254SW12.7	12,7 / 0,5
XP254T25	25 / 1	152,4 / 6	XP254SW25	25 / 1
XP254T50	50 / 2	152,4 / 6	XP254SW50	50 / 2
XP254T75	75 / 3	152,4 / 6	XP254SW75	75 / 3
XP254T100	100 / 4	152,4 / 6	XP254SW100	100 / 4



XP254 Series / Flight & Sidewall Technical Specifications

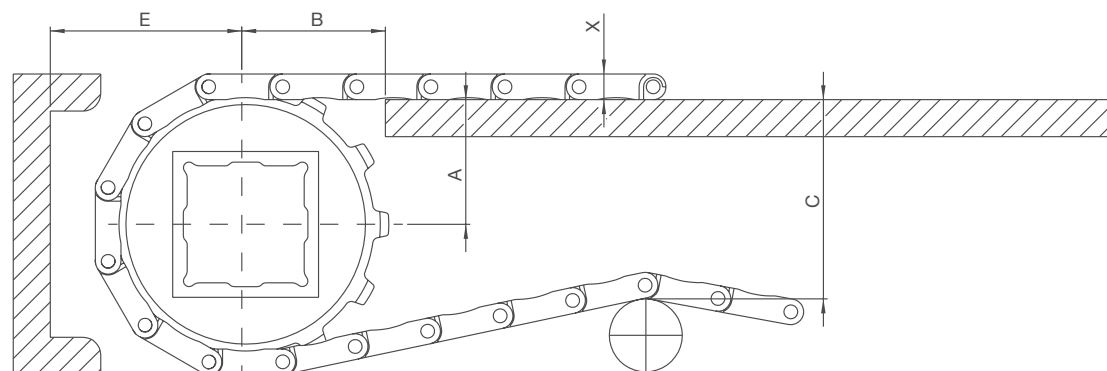
Possible Sidewall and Flights Indents	X		Y		Z	
	mm	inch	mm	inch	mm	inch
Standard, module cutting	24,1	0,95	13,7	0,54	30,5	1,20
Non-Standard, module cutting	31,9	1,25	21,5	0,84	38,1	1,50
Standard, module cutting	39,3	1,55	28,9	1,14	45,7	1,80
Non-Standard, module cutting	47,1	1,85	36,7	1,44	53,3	2,10
Standard, no module cutting	54,6	2,15	44,2	1,74	61,0	2,40

Note: Gap between flight and sidewall minimum 2-3 mm
Gap between flight and sidewall maximum 10 mm

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

XP254 Series

Engineering Information

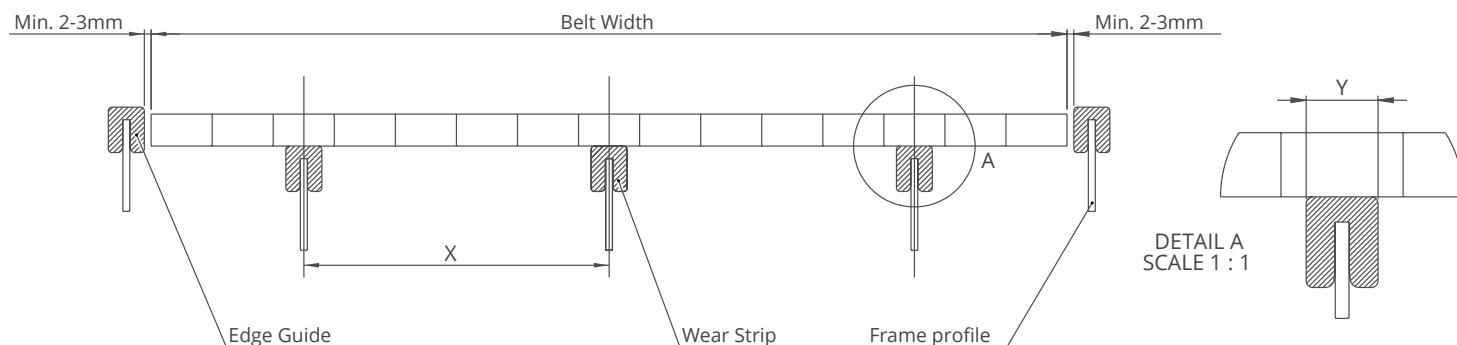


A - $\pm 0,031"$ (1mm)
B - $\pm 0,125"$ (3mm)
C - $\pm$ (Max.)
E - $\pm$ (Min.)

XP254 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								
XP254 C, XP254 PR4%, XP254 PR22%, XP254 FG												
2.32	59,0	8	1.17	29,8	1.43	36,5	1.94	49,3	1.91	48,6	0.35	8,8
2.99	76,0	10	1.47	37,0	1.69	42,9	2.57	65,4	2.21	56,2	0.35	8,8
3.59	91,2	12	1.79	45,5	1.86	47,3	3.19	81,1	2.53	64,3	0.35	8,8
4.65	118,0	15	2.22	56,3	2.13	54,1	4.15	105,3	2.96	75,1	0.35	8,8
5.67	144,0	18	2.71	69,0	2.31	58,7	5.16	131,0	3.45	87,8	0.35	8,8
XP254 BT												
2.32	59,0	8	1.17	29,8	1.44	36,5	1.94	49,3	2.03	51,6	0.50	12,7
2.99	76,0	10	1.47	37,0	1.69	42,9	2.57	65,4	2.33	59,2	0.50	12,7
3.59	91,2	12	1.79	45,5	1.86	47,3	3.19	81,1	2.65	67,3	0.50	12,7
4.65	118,0	15	2.22	56,3	2.13	54,1	4.15	105,3	3.07	78,1	0.50	12,7
5.67	144,0	18	2.71	69,0	2.31	58,7	5.16	131,0	3.57	90,8	0.50	12,7
XP254 GT												
2.32	59,0	8	1.17	29,8	1.43	36,5	2.06	52,3	2.03	51,6	0.46	11,8
2.99	76,0	10	1.47	37,0	1.69	42,9	2.69	68,3	2.33	59,2	0.46	11,8
3.59	91,2	12	1.79	45,5	1.86	47,3	3.32	84,3	2.65	67,3	0.46	11,8
4.65	118,0	15	2.22	56,3	2.13	54,1	4.26	108,3	3.07	78,1	0.46	11,8
5.67	144,0	18	2.71	69,0	2.31	58,7	5.27	134,0	3.57	90,8	0.46	11,8

XP254 Series / Slider Support System For Straight Running Belts



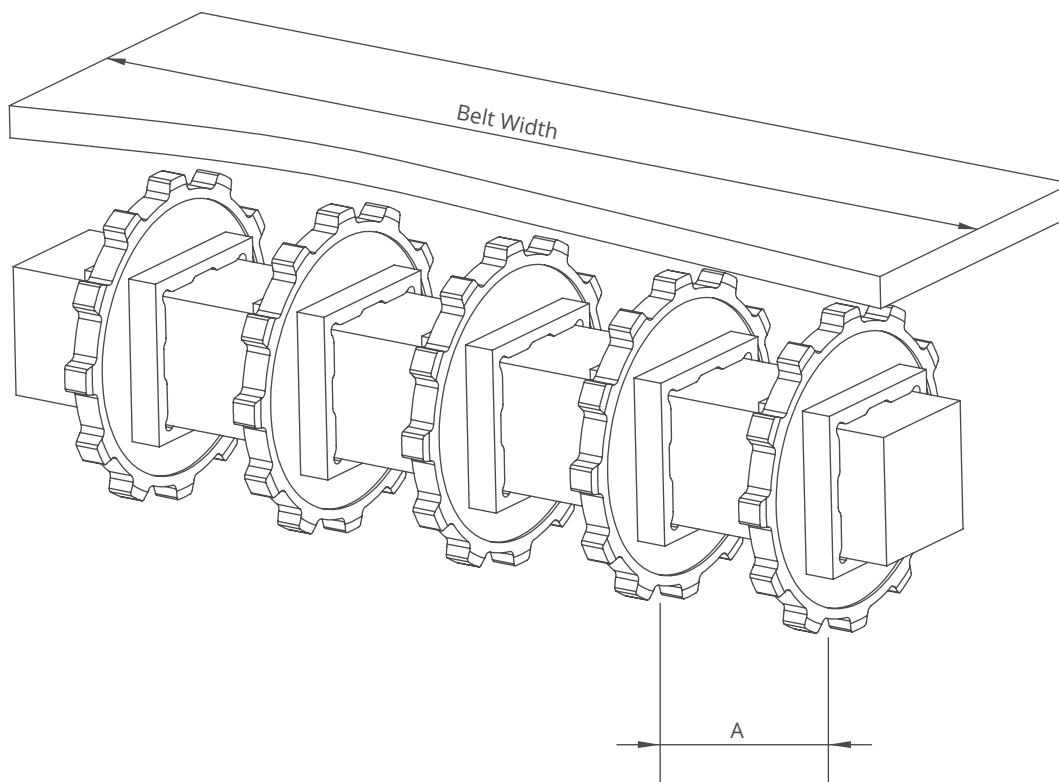
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

XP254 Series

Engineering Information



XP254 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
152,4	6.0	2	2	60/2.36	170/6.6
228,6	9.0	2	2	60/2.36	170/6.6
304,8	12.0	3	2	60/2.36	170/6.6
381,0	15.0	4	3	60/2.36	170/6.6
457,2	18.0	5	3	60/2.36	170/6.6
533,4	21.0	5	3	60/2.36	170/6.6
609,6	24.0	6	3	60/2.36	170/6.6
685,8	27.0	6	4	60/2.36	170/6.6
762,0	30.0	7	4	60/2.36	170/6.6
838,2	33.0	7	4	60/2.36	170/6.6
914,4	36.0	8	4	60/2.36	170/6.6
990,6	39.0	8	5	60/2.36	170/6.6
1066,8	42.0	9	5	60/2.36	170/6.6
1143,0	45.0	9	5	60/2.36	170/6.6
1219,2	48.0	10	5	60/2.36	170/6.6
1295,4	51.0	10	6	60/2.36	170/6.6
1371,6	54.0	11	7	60/2.36	170/6.6
1447,8	57.0	11	7	60/2.36	170/6.6
1524,0	60.0	12	7	60/2.36	170/6.6
1600,2	63.0	12	8	60/2.36	170/6.6
1676,4	66.0	12	8	60/2.36	170/6.6
1752,6	69.0	13	8	60/2.36	170/6.6
1828,8	72.0	14	9	60/2.36	170/6.6
1905,0	75.0	14	9	60/2.36	170/6.6
1981,2	78.0	15	10	60/2.36	170/6.6
2057,4	81.0	15	10	60/2.36	170/6.6

Note: Number of sprockets depends on the belt load.



MODUTECH®

EC254

Modular Belt Series

EC254 C

EC254 GT / Friction Top

EC254 PR16%

EC254 CRV22%

EC254 NT

EC254_NUT

Sprockets & Accessories

Engineering Information







EC254 C

Modular Belt Series

- **Meat (Beef and Pork) Applications**

Fat - Trim Lines, General Conveyence, Packing Lines, Elevator

- **Poultry Applications**

Debonning, Trim Lines, Offal - Feather Lines, Grading Lines, Freezing Lines, Elevator

- **Seafood Applications**

Inspection Tables, Grading Lines, Trim Lines

- **Bakery Applications**

Raw Dough Handling, Cooling Lines, Packing Lines

- **Snack Food Applications**

Corn Processing

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control - Sorting Table

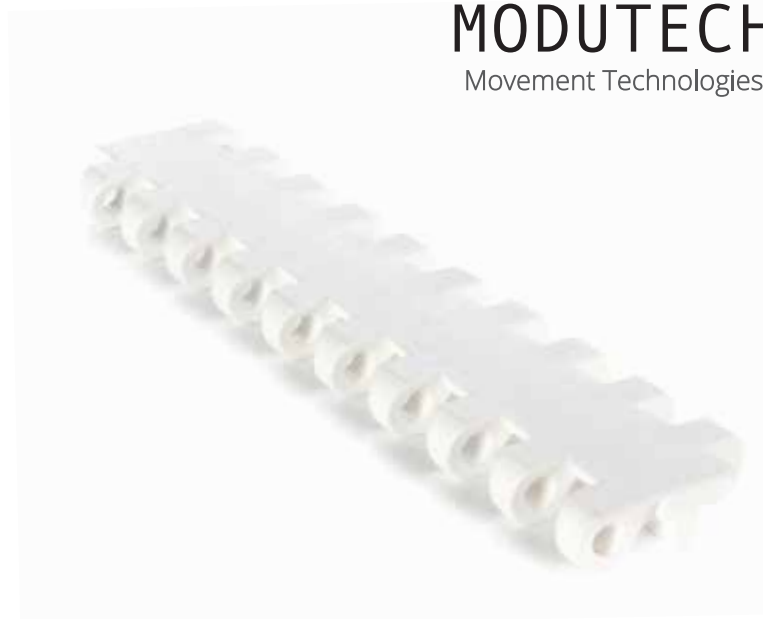
- **Packaging Applications**

Labelling, Palletizing - Depalletizing



MODUTECH®
Movement Technologies

EC254 C



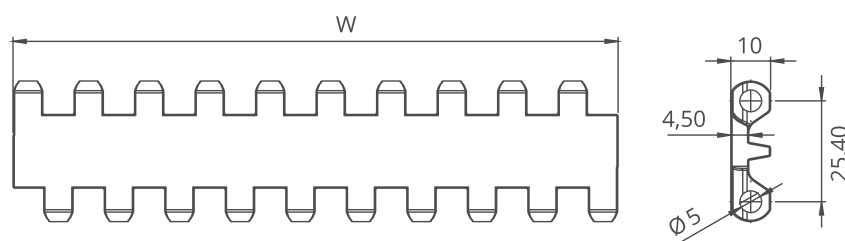
Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	10 mm / 0.394 inch

EC254 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	21900 - 1500	21900 - 1500	16000 - 1096	14000 - 959	14000 - 959	8000 -548
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m² lb/sqft²	7.3 / 1.49	7.3 / 1.49	7.3 / 1.49	4.9 / 1.00	4.9 / 1.00	5.2 / 1.05

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00
Belt Width mm	1371,6	1447,8	1524,0	1600,2													
Belt Width inch	54.00	57.00	60.00	63.00													



Product Features and Functional Benefits

- Easy to clean flat top surface.
- Unique sprocket engagement - higher product load and longer conveyors.
- Close transfer applications.
- Reduces bacteria growth.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -5 mm to -1 mm and -0.75% to -0.35% for wider belts.
- For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.
- Special raw materials and additional colors available.
- For POM material up to 750 mm (30") -4 mm to 0 mm and -0.3% to -0.1% for wider belts.



EC254 GT

Friction Top

Modular Belt Series

- **Meat & Poultry Applications**

General Conveyance, Packing Lines, Elevators

- **Seafood Applications**

General Conveyance, Packing Lines, Container & Box Conveyance

- **Bakery Applications**

Incline / Decline Conveyors, Pan & Tray Handling

- **Snack Food Applications**

Incline - Decline Conveyors

- **Fruits and Vegetables Applications**

Container Conveyance

- **Tire Manufacturing Applications**

Tire Transport Incline - Decline, Calendering Infeed, Extrusion Infeed

- **Packaging Applications**

Box Incline - Decline Conveyors



MODUTECH[®]
Movement Technologies

EC254 GT (Friction Top)

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Friction Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	13,5 mm / 0.53 inch

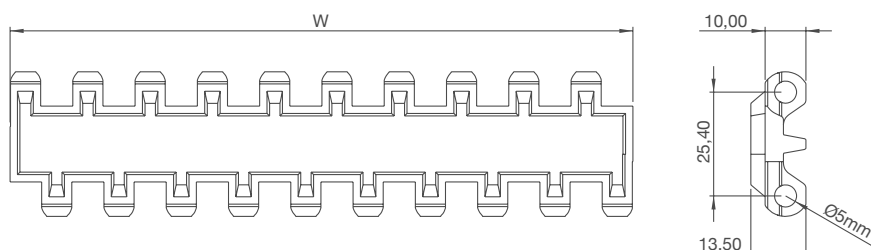


EC254 GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	14000 - 959	14000 - 959
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m ² lb/sqft ²	5.2 / 1.05	5.2 / 1.05

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51,00	54.00
Belt Width mm	1447,8	1524,0	1600,2														
Belt Width inch	57.00	60.00	63.00														



Product Features and Functional Benefits

- Flat rubber top increases friction in incline-decline applications.
- Easy to clean flat top surface.
- Unique sprocket engagement - higher product load and longer conveyors.

Important Notes

- **Standard belt increments 76,2 mm.**
- **Non-standard belt increments 15,2 mm.**
- Please contact with customer service for precise belt measurements.
- Indented belt assembly options are available with closed top modules.
- Physical belt widths are generally **0.1%** to **0.3%** smaller.
- Special raw materials and additional colors available.
- For PP material up to **750 mm (30")** -1 mm to 2 mm and **0%** to **0.45%** for wider belts.



EC254 PR16%

Modular Belt Series

- **Meat and Poultry Applications**

General Conveyance and Breeding Lines

- **Fruit and Vegetable Applications**

Including Elevators, Steam Peeler, Inspection Tables

- **Seafood Applications**

Including Elevators, Inspection Tables, Grading Lines, Trim Lines, Glazing Lines, Cooking Lines

- **Bakery Applications**

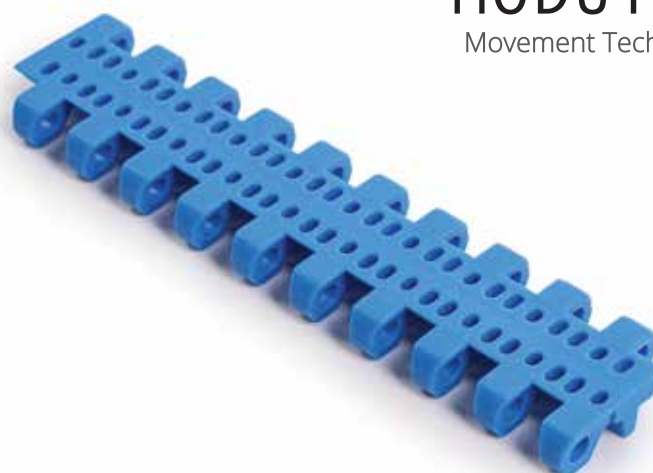
Including Raw Dough Handling, Cooling Lines, Icing Lines, Packing Lines, Metal Detectors



MODUTECH[®]
Movement Technologies

EC254 PR16%

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	16%. (Biggest opening 2,5 x 4,5 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	10 mm / 0.394 inch

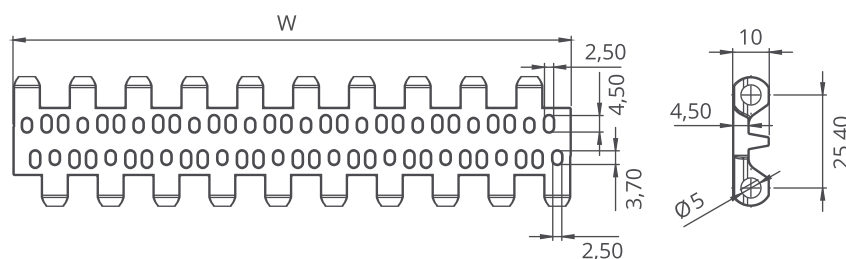


EC254 PR16% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	19800 - 1356	19800 - 1356	14000 - 959	12100 - 828	12100 - 828	7700 - 527
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m ² lb/sqft ²	6.5 / 1.33	6.5 / 1.33	6.5 / 1.33	4.5 / 0.92	4.5 / 0.92	4.7 / 0.96

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00
Belt Width mm	1371,6	1447,8	1524,0	1600,2													
Belt Width inch	54.00	57.00	60.00	63.00													

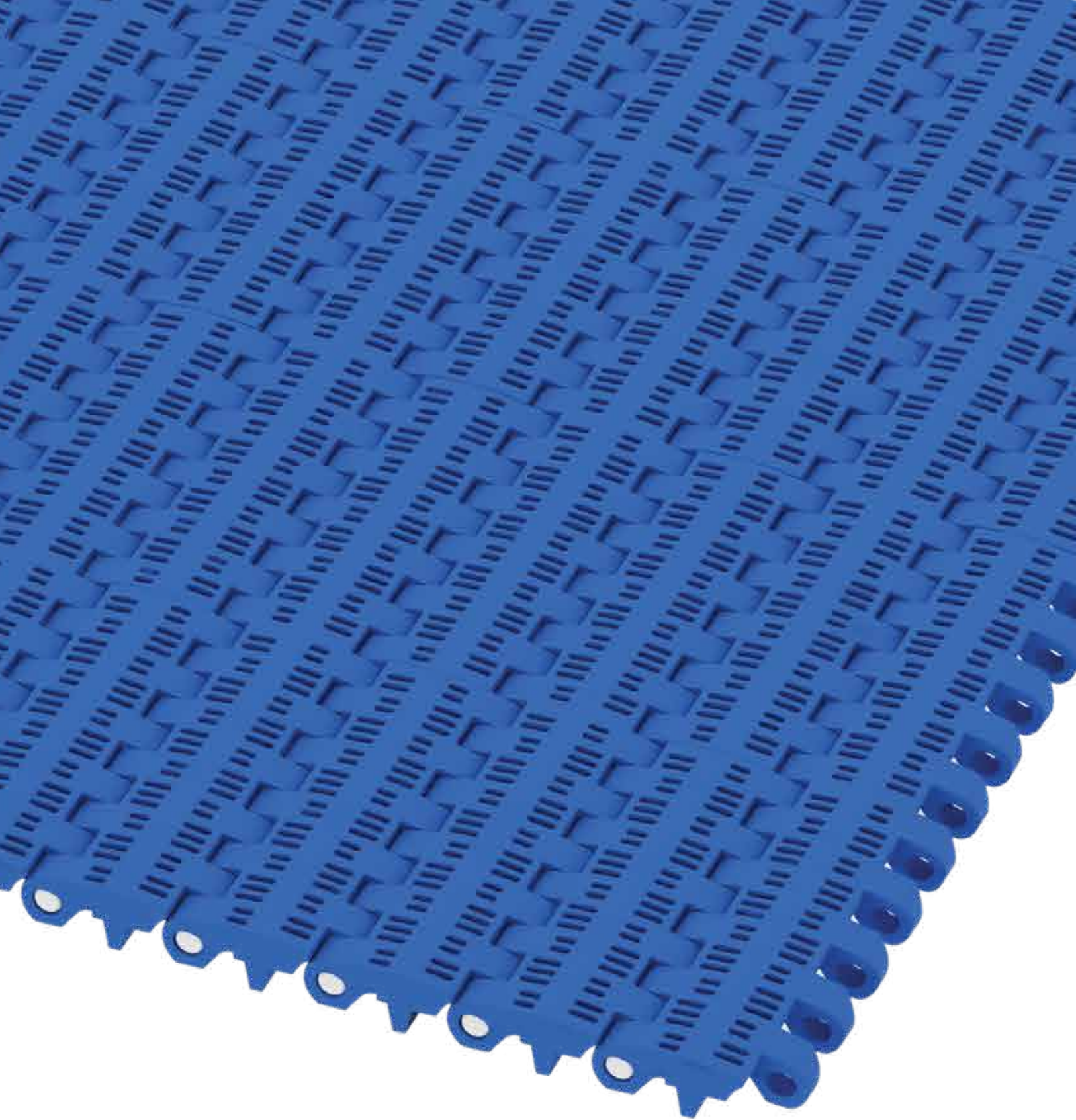


Product Features and Functional Benefits

- Easy to clean open surface.
- 16% open area for cooling and washing operations.
- Unique sprocket engagement - higher product load and longer conveyors.
- Close transfer applications.
- Reduces bacteria growth.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -4 mm to -1 mm and -0.75% to -0.35% for wider belts.
- For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



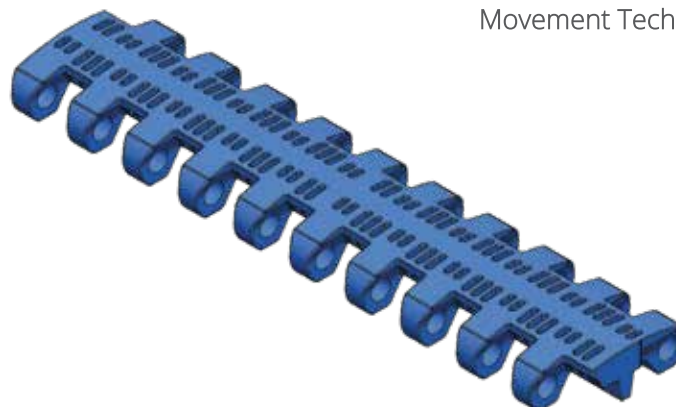
EC254 CRV22%

Modular Belt Series



MODUTECH[®]
Movement Technologies

EC254 CRV22%



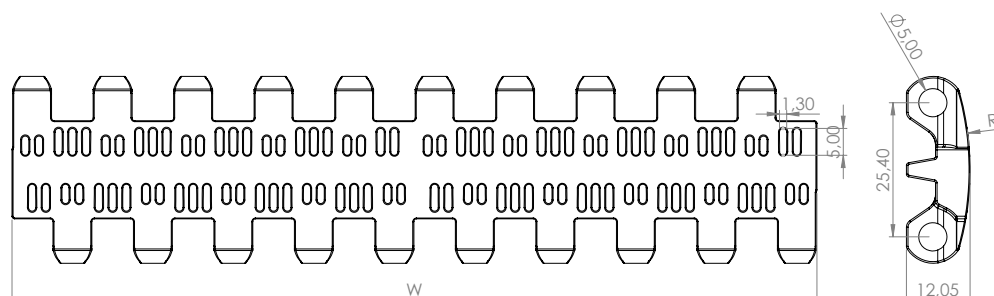
Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Curve Surface
Minimum Width:	76,2mm / 3.00 inch
Open Area (%):	22% (Biggest opening 1,3 x 5.0 mm)
Flight:	No
Sidewall:	No
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	12mm / 0.474 inch

EC254 CRV22% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		POM	PA	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	19700	19700	15200	12100	12100	8700	8200
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	7.7 / 1.58	7.7 / 1.58	7.7 / 1.58	5.3 / 1.09	5.3 / 1.09	5.5 / 1.13	5.5 / 1.13

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	76,2	152,4	228,6	394,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8
Belt Width inch	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57
Belt Width mm	1224,0	1600,2																	
Belt Width inch	60	63																	

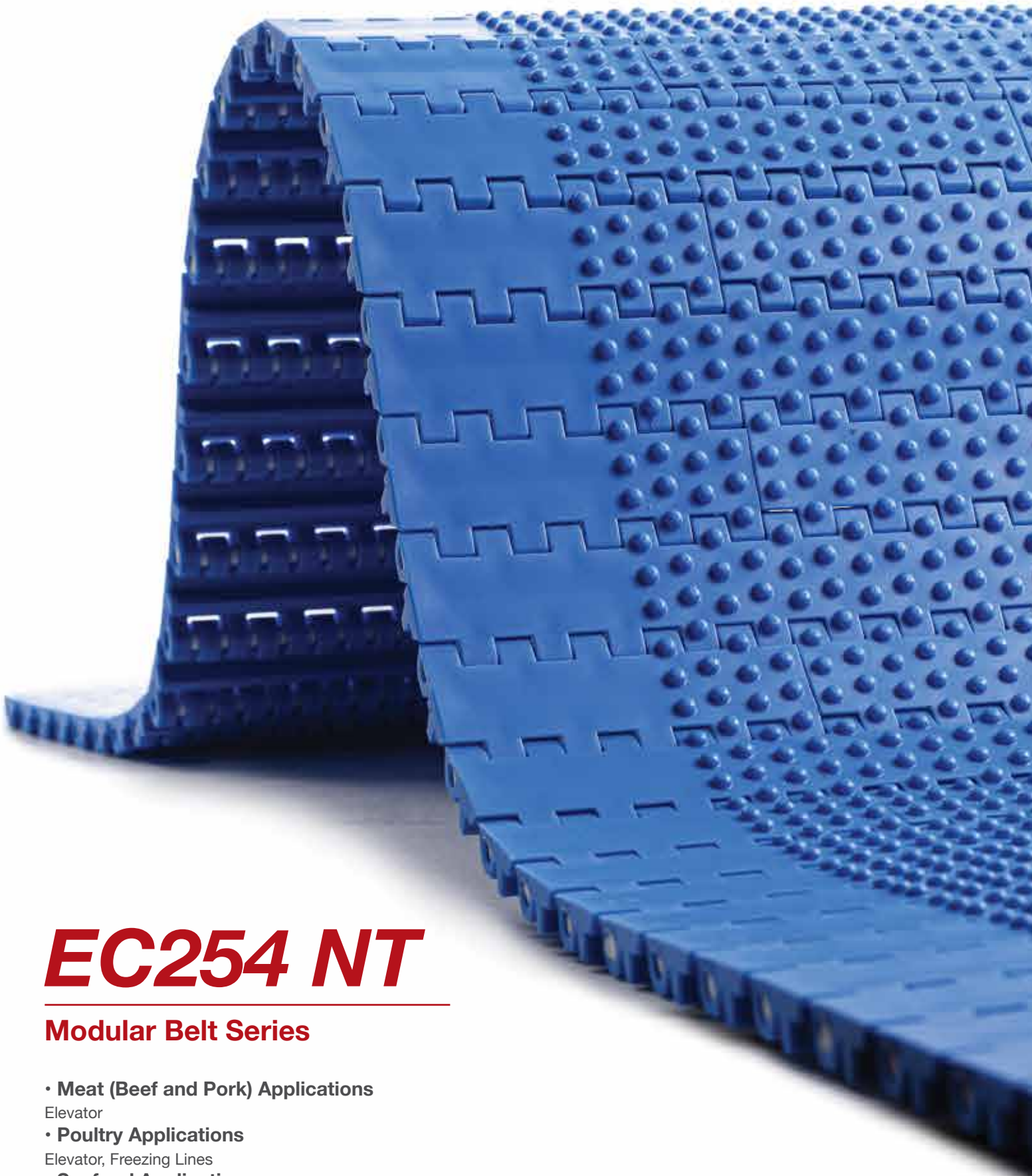


Product Features and Functional Benefits

- Easy to clean open surface.
- 22% open area for cooling and washing operations.
- 12-tooth sprocket system creates a circular path for improved scraping and easy cleaning.
- Food approved materials

Important Notes

- Standard belt width increments 76,2 mm (3")
- Non-standard belt width increments 15,2 mm (0.6")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.



EC254 NT

Modular Belt Series

- **Meat (Beef and Pork) Applications**

Elevator

- **Poultry Applications**

Elevator, Freezing Lines

- **Seafood Applications**

Control Tables, Glazing

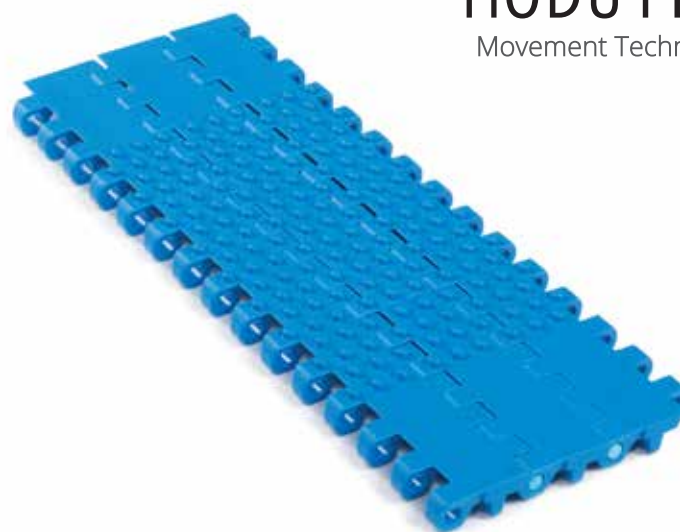
- **Fruits and Vegetables**

Including Elevator



MODUTECH®
Movement Technologies

EC254 NT



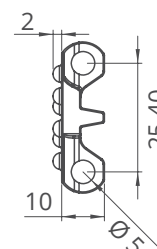
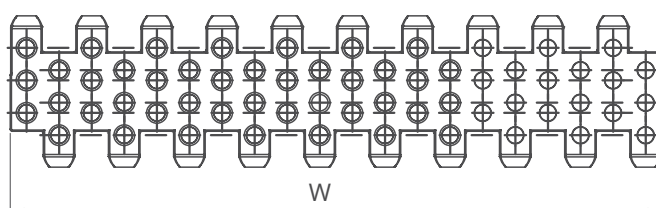
Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Nub Top Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	12 mm / 0.472 inch

EC254 NT Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	21900 - 1500	21900 - 1500	16000 - 1096	14000 - 959	14000 - 959	8000 -548
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m² lb/sqft²	7.7 / 1.57	7.7 / 1.57	7.7 / 1.57	5.1 / 1.05	5.1 / 1.05	5.4 / 1.11

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00
Belt Width mm	1371,6	1447,8	1524,0	1600,2													
Belt Width inch	54.00	57.00	60.00	63.00													

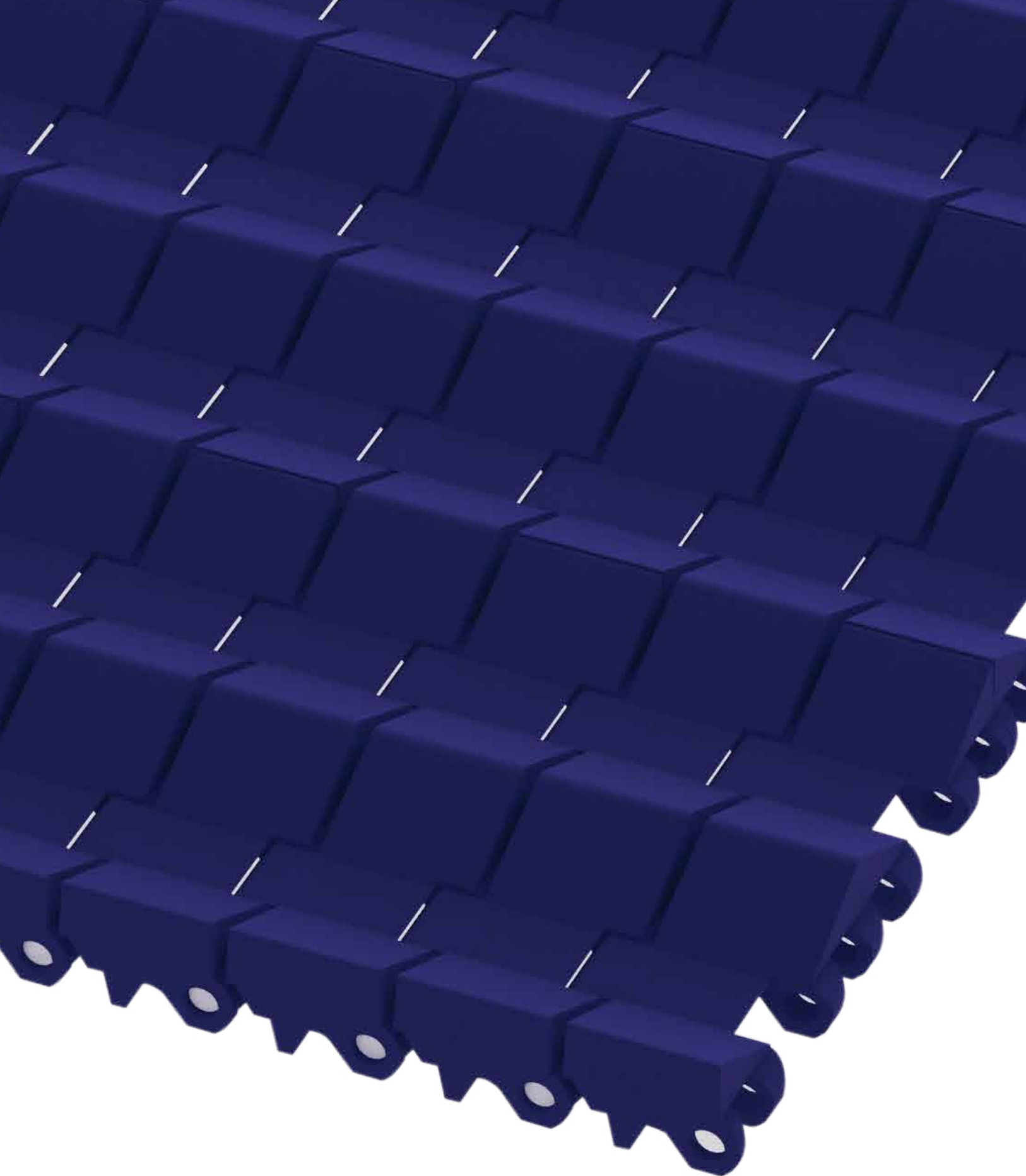


Product Features and Functional Benefits

- Easy to clean, closed nub top surface.
- Reduced contact surface for sticky operations.
- Unique sprocket engagement - higher product load and longer conveyors.
- Close transfer applications.
- Self indent modules available.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.
- Indented or fully nub top surface belt assembly options are available.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -5 mm to -2 mm and -0.75% to -0.35% for wider belts.
- For PP and POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



EC254 NUT

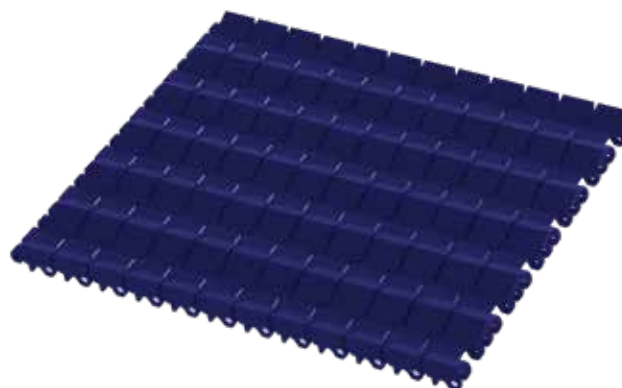
Modular Belt Series



MODUTECH[®]
Movement Technologies

EC254 NUT

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Pyramid Surface
Minimum Width:	101,6 mm / 4.00 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Good
Belt Thickness:	19,30 mm / 0.76 inch

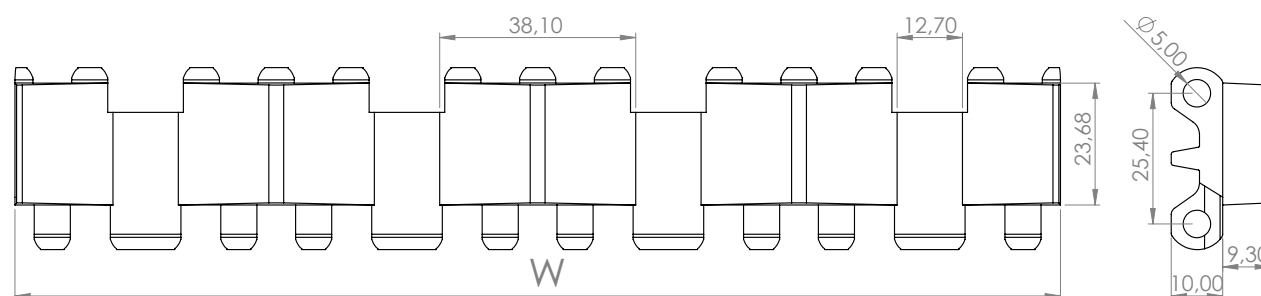


EC254 NUT Technical Information

Belt Material		POM	POM	POM	PP	PP
Pin Material		POM	PA	PP	PP	POM
Belt Strength	N/m lb/ft	17000 - 1165	17000 - 1165	15000 - 1028	13000 - 891	13000 - 891
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m ² lb/sqft ²	11,3 / 2.31	11,3 / 2.31	11,0 / 2.26	7,2 / 1.47	7,3 / 1.50

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	101,6	203,2	304,8	406,4	508,0	609,6	711,2	812,8	914,4	1016,0	1117,6	1219,2	1320,8	1422,4	1524,0
Belt Width inch	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60



Product Features and Functional Benefits

- Special pyramid geometry for small size product application
- Food approved materials

Important Notes

- Standard belt width increments 101,6 mm (4")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.

EC254 Series

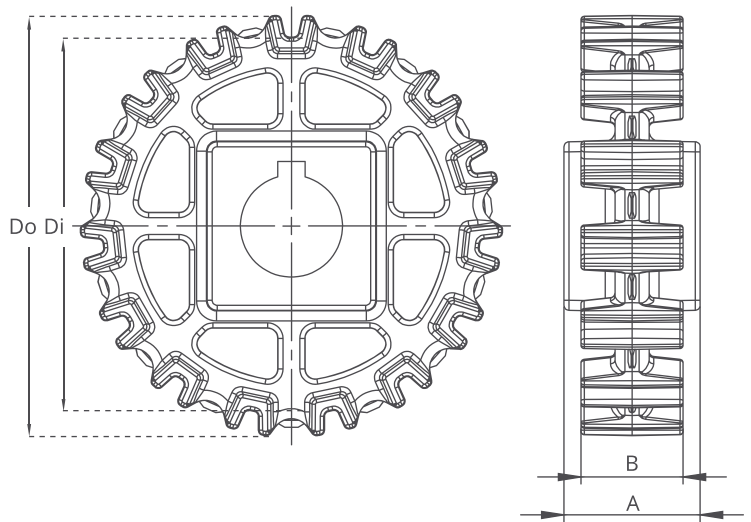
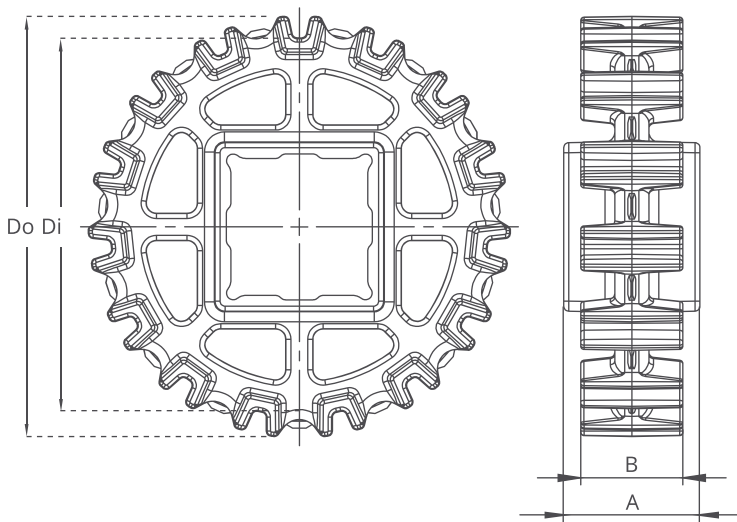
Sprockets and Technical Specifications



Z15



Z15



EC254 Series / Molded Sprocket Dimensions

NO. TEETH	Di mm/inch	Do mm/inch	B mm/inch	A mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	49,9 / 1.96	62,5 / 2.45	30 / 1.18	40 / 1.57	25	1	20-25	1	EC254SQZ8*POM	EC254SRZ8*POM
Z10	68,0 / 2.68	80,8 / 3.18	30 / 1.18	40 / 1.57	40	1.5	25-30	1-1.25	EC254SQZ10*POM	EC254SRZ10*POM
Z12	84,7 / 3.33	97,6 / 3.84	30 / 1.18	40 / 1.57	40	1.5	25-30	1-1.25	EC254SQZ12*POM	EC254SRZ12*POM
Z15	109,6 / 4.31	122,5 / 4.82	30 / 1.18	40 / 1.57	40	1.5	25-30	1-1.25	EC254SQZ15*POM	EC254SRZ15*POM
Z18	134,4 / 5.29	147,2 / 5.80	30 / 1.18	40 / 1.57	40	1.5	25-30	1-1.25	EC254SQZ18*POM	EC254SRZ18*POM

*CNC machined sprockets for specific number of teeth are available.

*CNC machined split sprockets are available.

*Special raw materials like PA (Polyamide) and PP (Polypropylene) are available for machined sprockets upon request.

EC254 Series

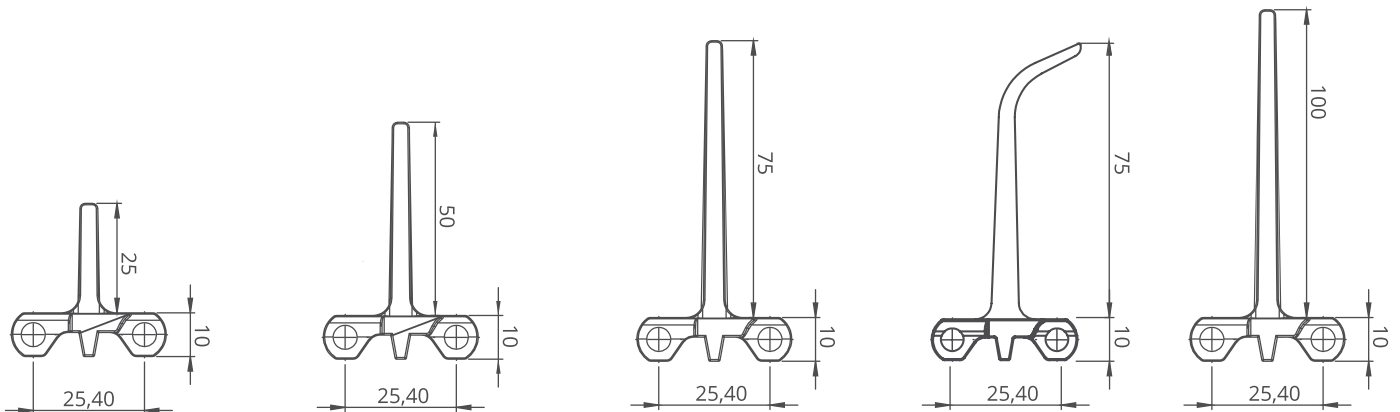
Accessories and Technical Specifications



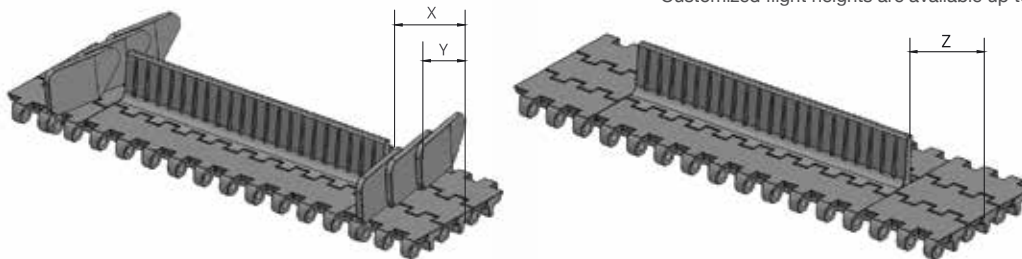
EC254 Series / Flight & Sidewall Dimensions

EC254 Series / Flights & Sidewalls

PRODUCT CODE	Flight Height (mm/inch)	Flight Width (mm/inch)	PRODUCT CODE	Sidewall Height (mm/inch)
EC254T25	25 / 1	152,4 / 6	EC254SW25	25 / 1
EC254T50	50 / 2	152,4 / 6	EC254SW50	50 / 2
EC254T75	75 / 3	152,4 / 6	EC254SW75	75 / 3
EC254T100	100 / 4	152,4 / 6	EC254SW100	100 / 4
EC254TC75	75 / 3	152,4 / 6	-	-
EC254TCH75	75 / 3	152,4 / 6	-	-
EC254TNC50	50 / 2	152,4 / 6	-	-
EC254TNC100	100 / 4	152,4 / 6	-	-



*Customized flight heights are available up to 100mm for T and TNC flights.



EC254 Series / Flight & Sidewall Technical Specifications

Possible Sidewall and Flights Indents	X		Y		Z	
	mm	inch	mm	inch	mm	inch
Standard, module cutting	24,1	0.95	13,7	0.54	30,5	1.20
Non-Standard, module cutting	31,9	1.25	21,5	0.84	38,1	1.50
Standard, module cutting	39,3	1.55	28,9	1.14	45,7	1.80
Non-Standard, module cutting	47,1	1.85	36,7	1.44	53,3	2.10
Standard, no module cutting	54,6	2.15	44,2	1.74	61,0	2.40

Note:

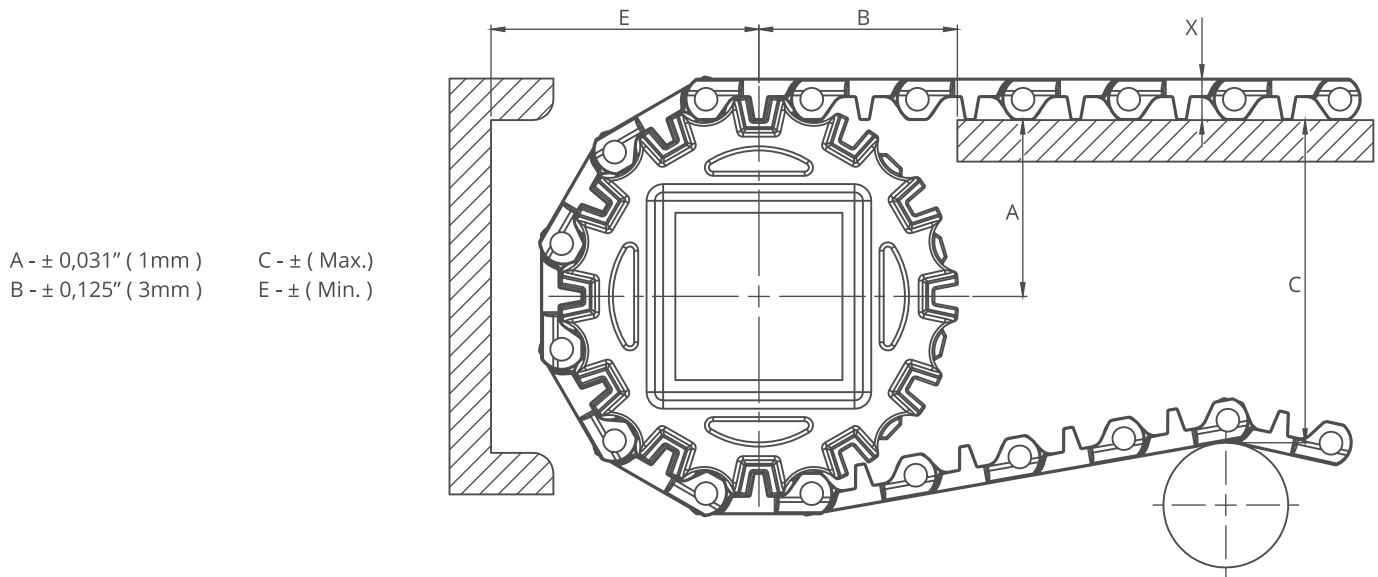
*Sidewall options are limited for fully Nub Top belt assemblies. Please contact your regional representative for available configurations.

*Sidewall options are not available for fully Grip Top belt assemblies. Please contact your regional representative for alternative solutions.

*Sidewall options are not available for EC254 CRV16% belt assemblies. Please contact your regional representative for alternative solutions.

EC254 Series

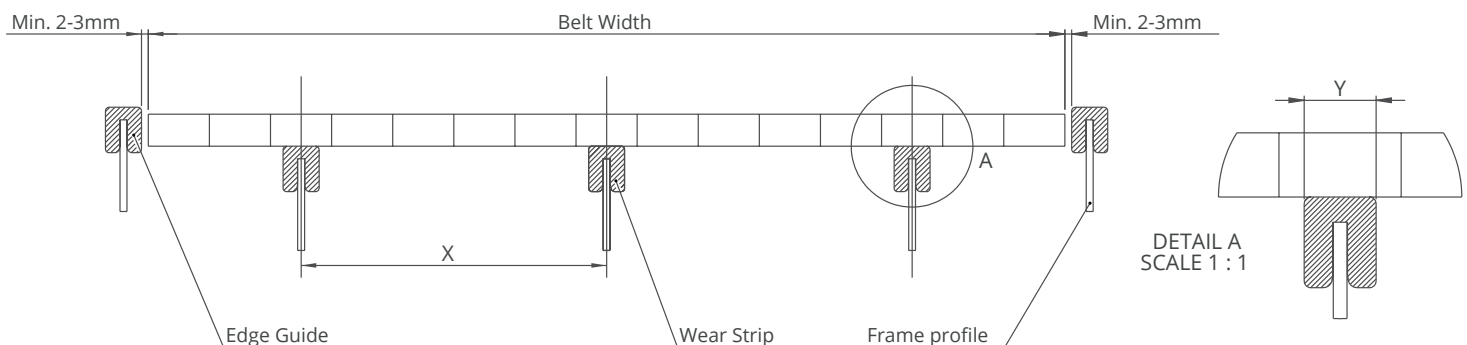
Engineering Information



EC254 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								
EC254 C, EC254 PR16%												
2.30	58,5	8	1.16	29,4	1.48	37,6	1.92	48,7	1.94	49,4	0.39	10
2.97	75,5	10	1.48	37,5	1.69	42,9	2.57	65,3	2.26	57,5	0.39	10
3.63	92,3	12	1.80	45,8	1.87	47,4	3.23	82,0	2.59	65,8	0.39	10
4.65	118,0	15	2.23	56,7	2.16	54,9	4.16	105,7	3.02	76,7	0.39	10
5.65	143,0	18	2.75	70,0	2.35	59,7	5.18	131,5	3.54	90,0	0.39	10
EC254 NT, EC254 CRV22%												
2.30	58,5	8	1.16	29,4	1.48	37,6	1.92	48,7	2.02	51,4	0.47	12
2.97	75,5	10	1.48	37,5	1.69	42,9	2.57	65,3	2.26	57,5	0.47	12
3.63	92,3	12	1.80	45,8	1.87	47,4	3.23	82,0	2.70	67,8	0.47	12
4.65	118,0	15	2.23	56,7	2.16	54,9	4.16	105,7	3.10	78,7	0.47	12
5.65	143,0	18	2.75	70,0	2.35	59,7	5.18	131,5	3.62	92,0	0.47	12
EC254 GT												
2.30	58,5	8	1.16	29,4	1.48	37,6	1.92	48,7	2.10	53,6	0.51	13
2.97	75,5	10	1.48	37,5	1.69	42,9	2.57	65,3	2.30	58,5	0.51	13
3.63	92,3	12	1.80	45,8	1.87	47,4	3.23	82,0	2.75	69,8	0.51	13
4.65	118,0	15	2.23	56,7	2.16	54,9	4.16	105,7	3.13	79,7	0.51	13
5.65	143,0	18	2.75	70,0	2.35	59,7	5.18	131,5	3.66	93,0	0.51	13

EC254 Series / Slider Support System For Straight Running Belts



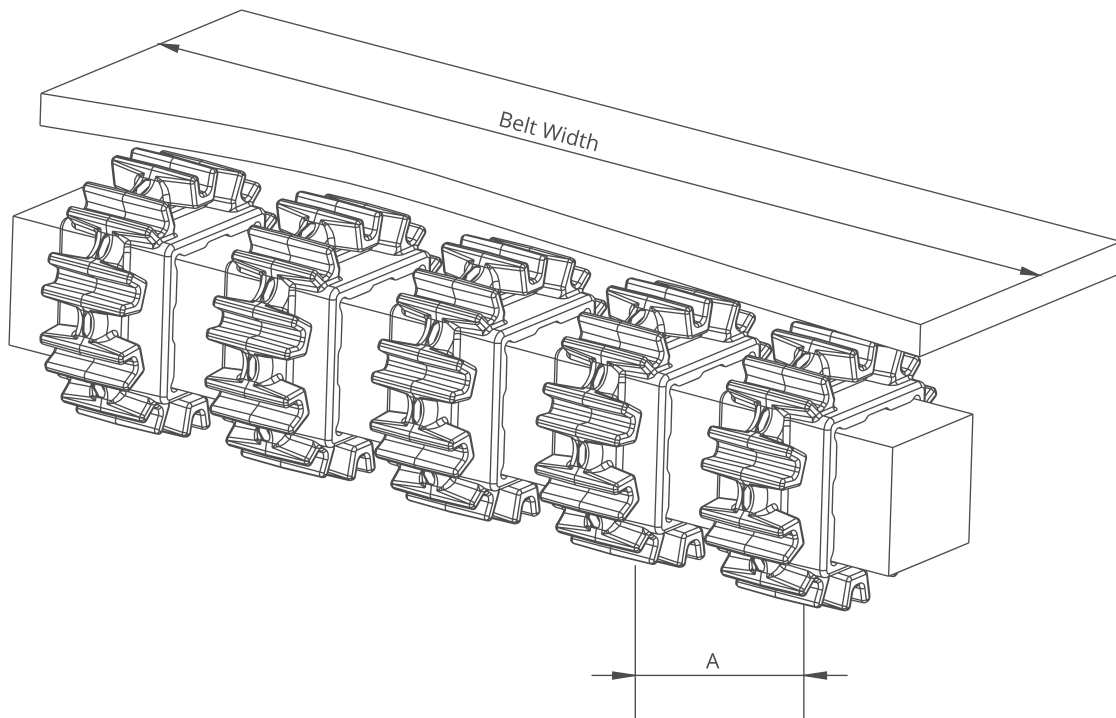
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

EC254 Series

Engineering Information



EC254 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
76,2	3,00	2	2	2	61 / 2.40	122 / 4.80
152,4	6,00	2	2	2	61 / 2.40	122 / 4.80
228,6	9,00	2	2	2	61 / 2.40	122 / 4.80
304,8	12,00	3	3	2	61 / 2.40	122 / 4.80
381,0	15,00	3	4	3	61 / 2.40	122 / 4.80
457,2	18,00	5	4	3	61 / 2.40	122 / 4.80
533,4	21,00	5	5	3	61 / 2.40	122 / 4.80
609,6	24,00	5	5	3	61 / 2.40	122 / 4.80
685,8	27,00	7	5	3	61 / 2.40	122 / 4.80
762,0	30,00	7	6	4	61 / 2.40	122 / 4.80
838,2	33,00	7	6	4	61 / 2.40	122 / 4.80
914,4	36,00	9	7	4	61 / 2.40	122 / 4.80
990,6	39,00	9	8	5	61 / 2.40	122 / 4.80
1066,8	42,00	11	8	5	61 / 2.40	122 / 4.80
1143,0	45,00	11	8	5	61 / 2.40	122 / 4.80
1219,2	48,00	11	9	5	61 / 2.40	122 / 4.80
1295,4	51,00	13	10	6	61 / 2.40	122 / 4.80
1371,6	54,00	13	10	6	61 / 2.40	122 / 4.80
1447,8	57,00	13	11	6	61 / 2.40	122 / 4.80
1524,0	60,00	15	11	6	61 / 2.40	122 / 4.80
1600,2	63,00	15	11	6	61 / 2.40	122 / 4.80

Note:

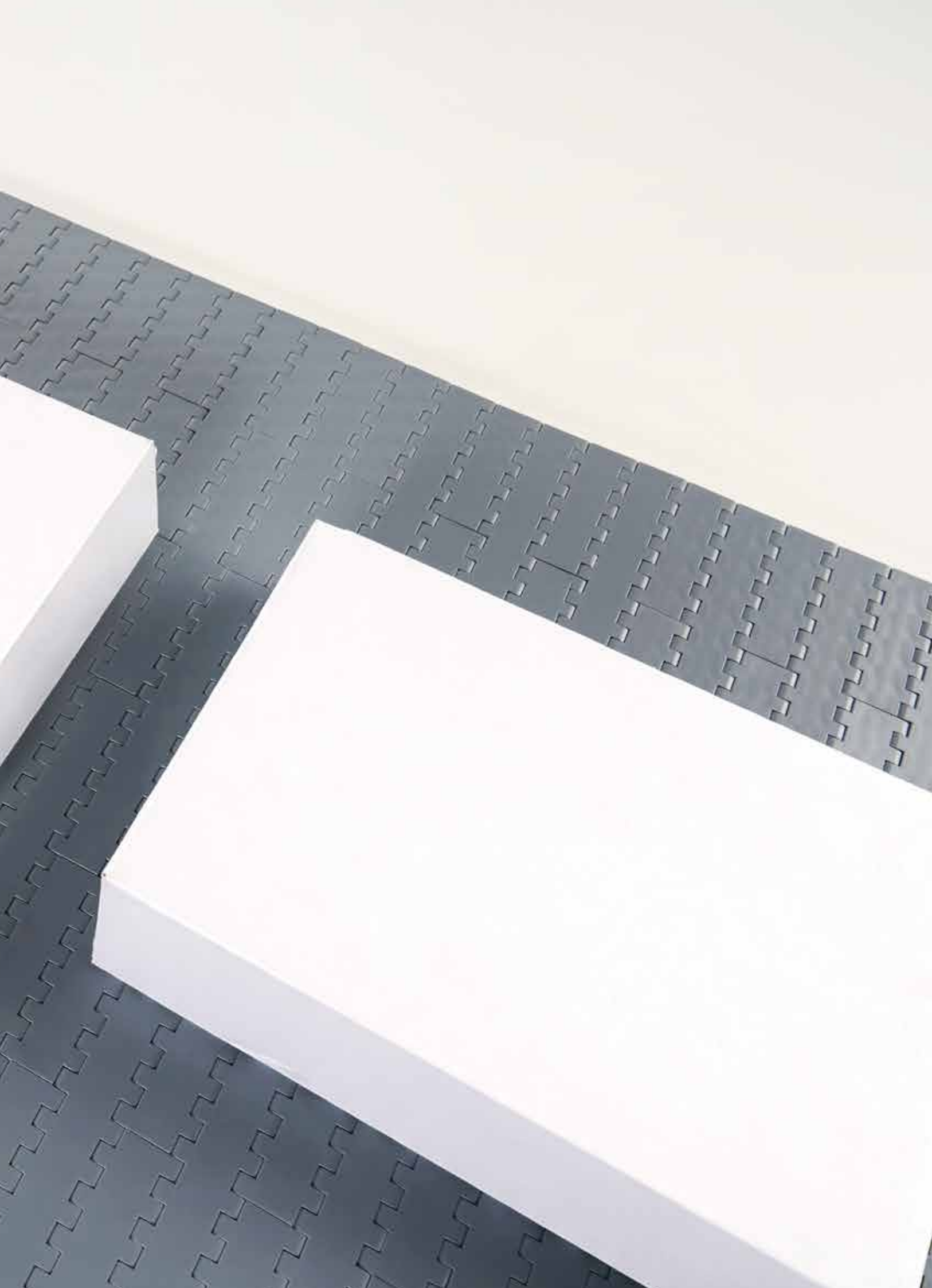
*The number of sprockets and wearstrips may vary depending on the conveyor load.

HD254

Heavy Duty Series

Modular Belt Series

HD254 C
Sprockets
Engineering Information





HD254 C

Modular Belt Series

- **Corrugated Cardbord Applications**

Palletizer, Down Stackers, Corrugator Take Off, Strap Feed

- **Wood Industry**

Board Handling, Pallets Conveying, Trimming & Cutting

- **Automotive Applications**

Car Body Assembly, Car Part Manufacturing, Assembly Lines,

- **Tire Manufacturing Applications**

Scaling & Marking, Tire Transport, Sciver Cementing

- **Packaging Applications**

Box Transport

- **Beverages and Bottling Applications**

Can Palletizing and Depalletizing, Glass Palletizing and Depalletizing,
Pet Palletizing and Depalletizing



MODUTECH[®]
Movement Technologies

HD254 C

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	170 mm / 6.69 inch
Open Area (%):	0%.
Flight:	No
Sidewall:	No
Pin:	Ø 6 mm / 0.22 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / Gray
Cleanability:	Excellent
Belt Thickness:	12,7 mm / 0.5 inch

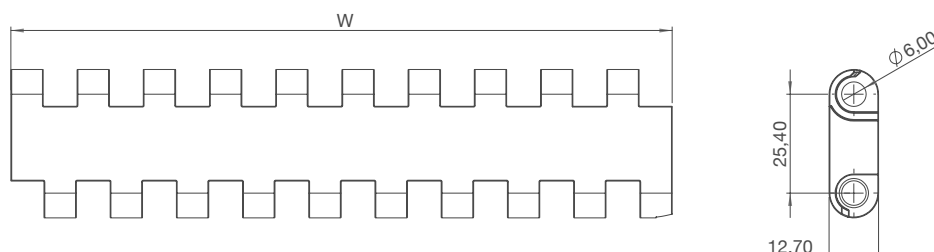


HD254 C Technical Information

Belt Material		POM
Pin Material		PA
Belt Strength	N/m lb/ft	33000 - 2261
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	13.8 / 2.83

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (minimum)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	85	170	255	340	425	510	595	680	765	850	935	1020	1105	1190	1275	1360	1445	1530
Belt Width inch	3,346	6,693	10	13,4	16,7	20,1	23,43	26,77	30,12	33,46	36,81	40,16	43,5	46,85	50,2	53,54	56,89	60,24



Product Features and Functional Benefits

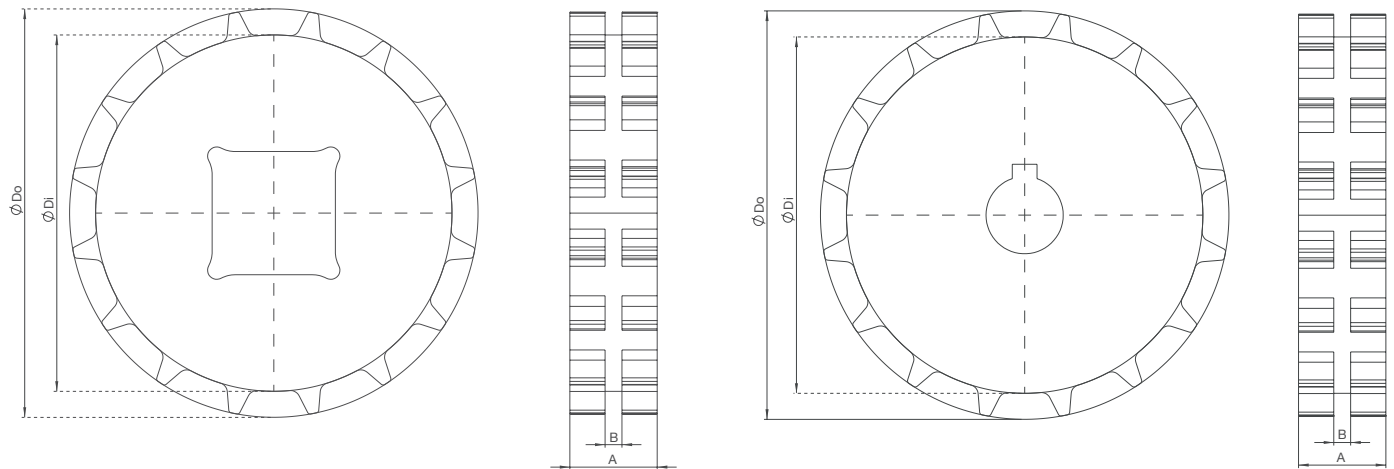
- Reinforced bottom surface - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Impact resistance to withstand heavy objects falling into the belt.

Important Notes

- Standard belt increments 85 mm.
- Non-standard belt increments 17 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Up to 750 mm (30") -3 mm to 0 mm -0.4% to 0% for wider belts.

HD254 C Series

Sprockets and Technical Specifications



HD254 C Series / Machined Sprocket Dimensions

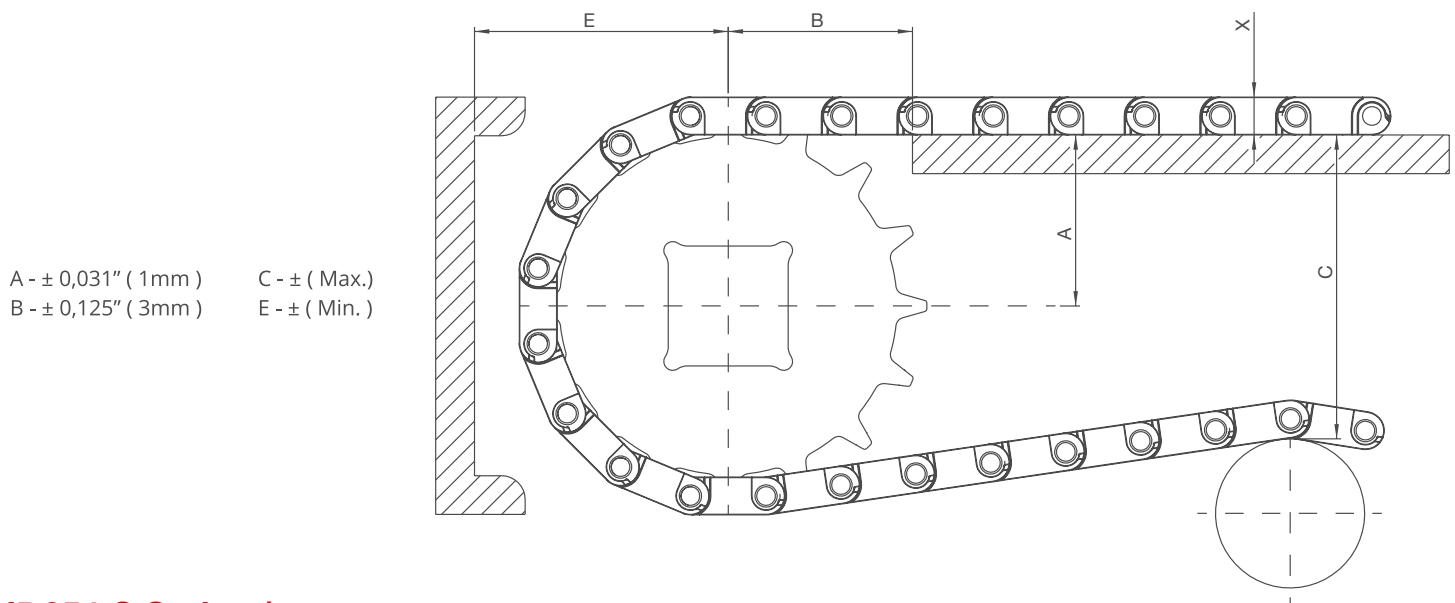
NO. TEETH	Di mm/inch	Do mm/inch	B mm/inch	A mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z12	80,6 / 3.17	99,2 / 3.90	5,5 / 0.22	28,5 / 1.12	25	1	25	1	HD254SQZ12*POM	HD254SRZ12*POM
Z16	112,3 / 4.42	131,3 / 5.17	5,5 / 0.22	28,5 / 1.12	40	2	25-30	1-1,25	HD254SQZ16*POM	HD254SRZ16*POM
Z18	129,2 / 5.09	148,3 / 5.83	5,5 / 0.22	28,5 / 1.12	40	2	25-30	1-1,25	HD254SQZ18*POM	HD254SRZ18*POM
Z21	152,9 / 6.02	172,5 / 6.79	5,5 / 0.22	28,5 / 1.12	40-60	1,5-2,5	25-30	1-1,25	HD254SQZ21*POM	HD254SRZ21*POM

*All required sprockets produced by CNC machining.

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

*PA (Nylon) raw material and other options are available on request.

*Machined Split Sprockets are available.

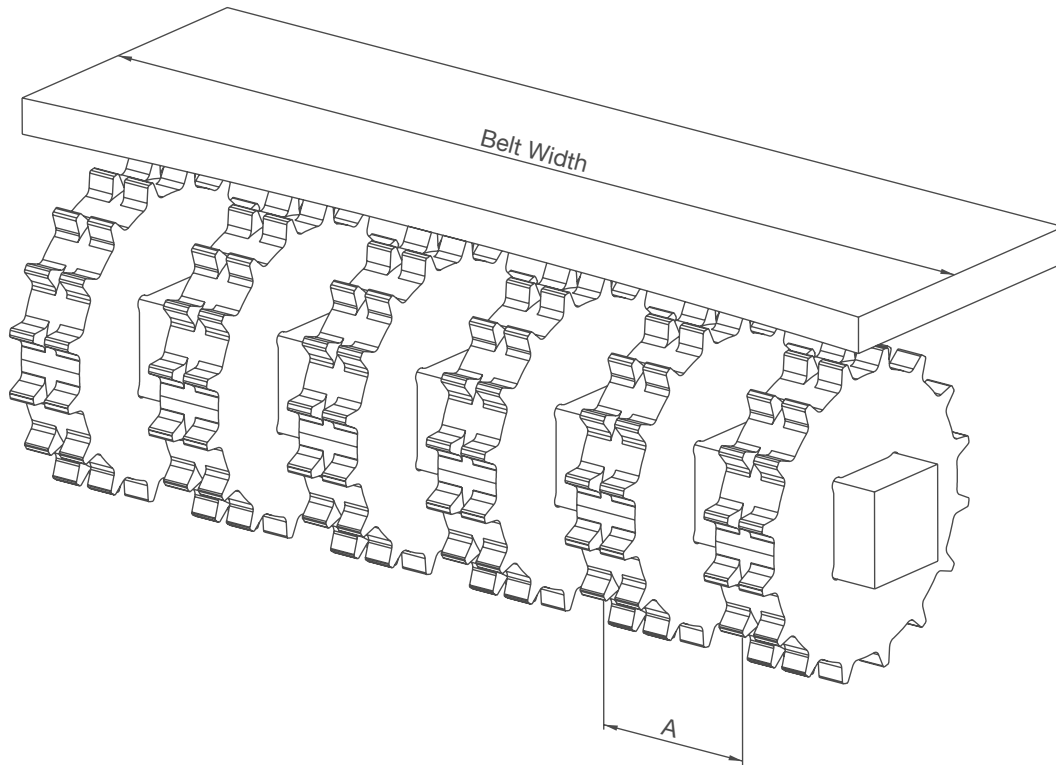


HD254 C Series / Conveyor Frame Dimensions

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								
HD254 C												
3,8	97,3	12	1,65	42	2,01	51	3,07	78	2,72	69	0,50	12,7
5,1	128,9	16	2,26	57,5	2,36	60	4,33	110	3,35	85	0,50	12,7
5,7	144,3	18	2,62	66,5	2,56	65	5,00	127	3,66	93	0,50	12,7
6,7	169,4	21	3,09	78,5	3,19	81	5,91	150	4,13	105	0,50	12,7

HD254 C Series

Engineering Information



HD254 C Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
85,0	3,3	1-2	2	2	-	-
170,0	6,7	2	2	2	85 / 3.35	-
255,0	10,0	2	2	2	85 / 3.35	170 / 6.7
340,0	13,4	2	2	2	85 / 3.35	170 / 6.7
425,0	16,7	3	3	3	85 / 3.35	170 / 6.7
510,0	20,1	3	3	3	85 / 3.35	170 / 6.7
595,0	23,4	4	4	3	85 / 3.35	170 / 6.7
680,0	26,8	4	4	3	85 / 3.35	170 / 6.7
765,0	30,1	5	5	4	85 / 3.35	170 / 6.7
850,0	33,5	5	5	4	85 / 3.35	170 / 6.7
935,0	36,8	6	6	4	85 / 3.35	170 / 6.7
1020,0	40,2	6	6	4	85 / 3.35	170 / 6.7
1105,0	43,5	7	7	5	85 / 3.35	170 / 6.7
1190,0	46,9	7	7	5	85 / 3.35	170 / 6.7
1275,0	50,2	8	8	5	85 / 3.35	170 / 6.7
1360,0	53,5	8	8	5	85 / 3.35	170 / 6.7
1445,0	56,9	9	9	6	85 / 3.35	170 / 6.7
1530,0	60,2	9	9	6	85 / 3.35	170 / 6.7
1615,0	63,6	10	10	6	85 / 3.35	170 / 6.7
1700,0	66,9	10	10	6	85 / 3.35	170 / 6.7
1785,0	70,3	11	11	7	85 / 3.35	170 / 6.7
1870,0	73,6	11	11	7	85 / 3.35	170 / 6.7
1955,0	77,0	12	12	7	85 / 3.35	170 / 6.7
2040,0	80,3	12	12	7	85 / 3.35	170 / 6.7

Note:

*The required number of sprockets varies depending on belt load and can differ between drive and idle shafts.

*Do not place sprockets in areas without cavities for sprocket teeth.

*For special belt widths and sprockets arrangements, please contact with Modutech technical support team.



MODUTECH®

MD254

Modular Belt Series

MD254 FG
MD254 FG-RT / Roller Top
MD254 C
MD254 C-RT / Roller Top
MD254 GT / Friction Top
MD254 RR
MD254 GAP48%
MD254 GAP48%-EHT

Sprockets % Accessories
Engineering Information







MD254 FG

Modular Belt Series

- **Meat Applications**

Freezing Lines, Marinate Lines, Crates handling

- **Poultry Applications**

Skinning, Breeding Machines and Grading Lines

- **Seafood Applications**

Breeding Machines, Draining Lines, Glazing Lines, Elevators, Freezing Lines

- **Bakery Applications**

Oven Infeed - Outfeed, Cooling Lines, Coating Lines, Glazing Lines, Freezing Lines, Spiral infeed / outfeed, Conditioning Lines, Pan handling

- **Snack Food Applications**

Proofer Lines, Boiler Infeed, Oven Infeed - Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Prewashing - Rinsing, Draining, Blanching Lines, Freezing Lines,

- **Packaging Applications**

Filling, Accumulation Palletizing - Depalletizing, Box Transfer



MODUTECH®
Movement Technologies

MD254 FG



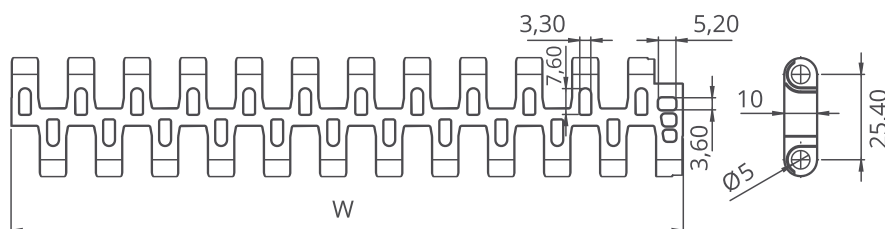
Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	50 mm / 1.97 inch
Open Area (%):	33%. (Biggest opening 5,5 x 7 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	10 mm / 0.394 inch

MD254 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	24700 - 1692	24700 - 1692	18000 - 1233	14000 - 959	14000 - 959	9000 -617
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150
Belt Weight	kg/m² lb/sqft²	7.1 / 1.45	7.1 / 1.45	7.1 / 1.45	4.6 / 0.94	4.6 / 0.94	5.1 / 1.04

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	50,0	100,0	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0
Belt Width inch	1.97	3.94	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46
Belt Width mm	900,0	950,0	1000,0	1050,0													
Belt Width inch	35.43	37.40	39.37	41.34													



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.
- Bi-directional belt for long conveyors.
- Stainless steel pins option reduce belt elongation for high temperature application.

Important Notes

- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -5 mm to -1 mm and -0.8% to -0.3% for wider belts.
- For PP material up to 750 mm (30") -2 mm to 1 mm and -0.4% to 0.1% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0.1% for wider belts.



MD254 FG-RT

Roller Top

Modular Belt Series

- **Packaging Applications**

Labelling, Case Packers, Tray Packers, Palletizing - Depalletizing

- **Logistic Center Applications**

Material Handling, Box Transfer, Sorting Lines, Speeding Lines, Diverting Lines

- **Bakery Applications**

Pan & Tray Handling

- **Meat&Poultry Applications**

Case & Box Handling, Accumulation Lines



MODUTECH®
Movement Technologies

MD254 FG-RT (Roller Top)

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Roller Top Surface
Minimum Width:	150 mm / 5.91 inch
Open Area (%):	35%. (Biggest opening 5,5 x 14 mm)
Flight:	No
Sidewall:	No
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	18 mm / 0.709 inch

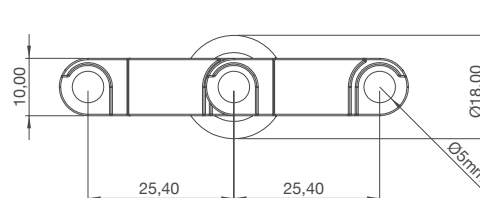
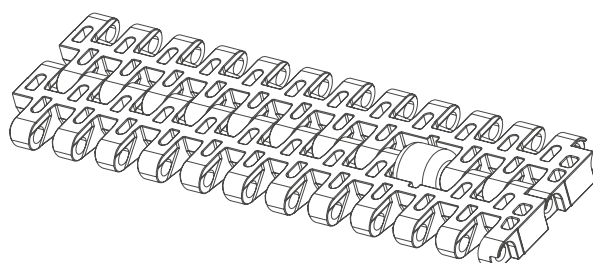


MD254 FG-RT Technical Information

Belt Material		POM	POM
Roller Material		POM	
Pin Material		PA	POM
Belt Strength	N/m lb/ft	16400 - 1120	16400 - 1120
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	7.1 / 1.45	7.1 / 1.45

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0
Belt Width inch	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40
Belt Width mm	1000,0	1050,0	1100,0	1150,0													
Belt Width inch	39.37	41.34	43.31	45.28													



Product Features and Functional Benefits

- Bi-directional and strong belt for long conveyors.
- Speeding operations, place the wearstrips under the rollers.
- Accumulation operations, place the wearstrips between rollers

Important Notes

- Standard belt increment 50 mm.
- Central distance between rollers is 50 mm, as standard.
- Center of 1st. roller to the belt edge is 50 mm, as standard.
- Roller pitch is 50,8 mm, as standard.
- Please contact with customer service for special belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.



MD254 C

Modular Belt Series

- **Meat (Beef and Pork) Applications**

Fat - Trim Lines, General Conveyence, Packing Lines, Elevator

- **Poultry Applications**

Debonning, Trim Lines, Offal - Feather Lines, Grading Lines, Freezing Lines, Elevator

- **Seafood Applications**

Inspection Tables, Grading Lines, Trim Lines

- **Bakery Applications**

Raw Dough Handling, Cooling Lines, Packing Lines

- **Snack Food Applications**

Corn Processing

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control - Sorting Table

- **Automotive Applications**

Car Part Manufacturing

- **Tire Manufacturing Applications**

Mixer Infeed - Outfeed, Calendaring Infeed, Extrusion Outfeed

- **Packaging Applications**

Labelling, Case Packers, Tray Packers, Palletizing - Depalletizing

- **Corrugated Cardbord Applications**

Down Stracker, Corrugator Take Off, Strap Feed

- **Printing and Paper Applications**

Printing Machine Outfeed, Wrapping Machine Outfeed

- **Beverages and Bottling Applications**

Can Palletizing and Depalletizing, Glass Palletizing and Depalletizing,

Pet Palletizing and Depalletizing

- **Material Handling Applications**

Incline Applications, Palletizers, Packaging Lines

MD254 C

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	50 mm / 1.97 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	10 mm / 0.394 inch

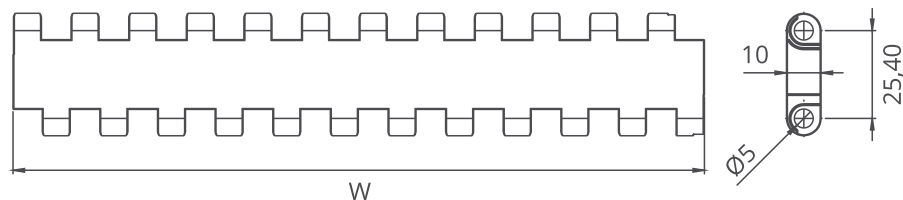


MD254 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	32000 - 2192	32000 - 2192	21500 - 1473	18000 - 1233	18000 - 1233	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	8.4 / 1.71	8.4 / 1.71	8.4 / 1.71	5.5 / 1.13	5.5 / 1.13	5.8 / 1.19

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	50,0	100,0	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0
Belt Width inch	1.97	3.94	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46
Belt Width mm	900,0	950,0	1000,0	1050,0													
Belt Width inch	35.43	37.40	39.37	41.34													



Product Features and Functional Benefits

- Closed, Flat top surface.
- High horizontal and vertical strength.
- Suitability for many different applications.
- Unique sprocket engagement - higher product load and longer conveyors.
- Close transfer applications.
- Bi-directional belt for long conveyors.

Important Notes

- Standard belt increments 50 mm.
- Non-standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -3 mm to 1 mm and -0.4% to 0.1% for wider belts.
- For PP material up to 750 mm (30") -1 mm to 2 mm and 0% to 0.45% for wider belts.
- For POM material up to 750 mm (30") -2 mm to 1 mm and -0.25% to 0.25% for wider belts.



MD254 C-RT

Modular Belt Series

- **Packaging Applications**

Labelling, Case Packers, Tray Packers, Palletizing - Depalletizing

- **Logistic Center Applications**

Material Handling, Box Transfer, Sorting Lines, Speeding Lines, Diverting Lines

- **Bakery Applications**

Pan & Tray Handling

- **Meat&Poultry Applications**

Case & Box Handling, Accumulation Lines



MODUTECH[®]
Movement Technologies

MD254 C-RT

Pitch:	25,4 mm / 1 inch
Belt Surface:	Close, Roller Top Surface
Minimum Width:	150 mm / 1.97 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	18 mm / 0.7 inch

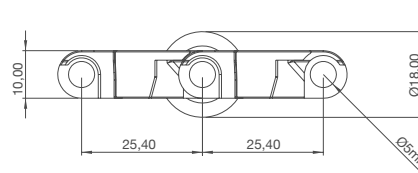
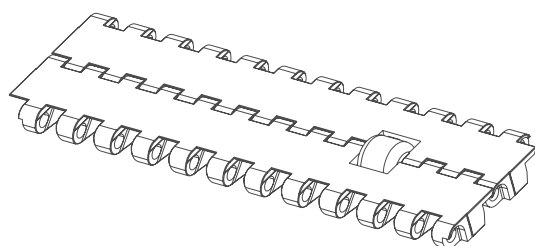


MD254 C-RT Technical Information

Belt Material		POM	POM
Roller Material		POM	
Pin Material		PA	POM
Belt Strength	N/m lb/ft	21500 - 1473	21500 - 1473
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	8.4 / 1.71	8.4 / 1.71

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0
Belt Width inch	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40
Belt Width mm	1000,0	1050,0															
Belt Width inch	39.37	41.34															



Product Features and Functional Benefits

- Bi-directional and strong belt for long conveyors.
- Speeding operations, place the wearstrips under the rollers.
- Accumulation operations, place the wearstrips between rollers

Important Notes

- Standard belt increments 50 mm.
- Central distance between rollers is 50 mm, as standard.
- Center of 1st. roller to the belt edge is 50 mm, as standard.
- Roller pitch is 50 mm, as standard.
- Please contact with customer service for special belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.



MD254 GT

Friction Top

Modular Belt Series

- **Bakery Applications**

Incline / Decline Conveyors, Pan & Tray Handling

- **Snack Food Applications**

Incline - Decline Conveyors

- **Fruits and Vegetables Applications**

Container Conveyance

- **Tire Manufacturing Applications**

Tire Transport Incline - Decline, Calendering Infeed, Extrusion Infeed

- **Packaging Applications**

Box Incline - Decline Conveyors



MODUTECH[®]
Movement Technologies

MD254 GT (Friction Top)

Pitch:	25,4 mm / / 1 inch
Belt Surface:	Close, Friction Surface
Minimum Width:	50 mm / 1.97 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	14 mm / 0.551 inch

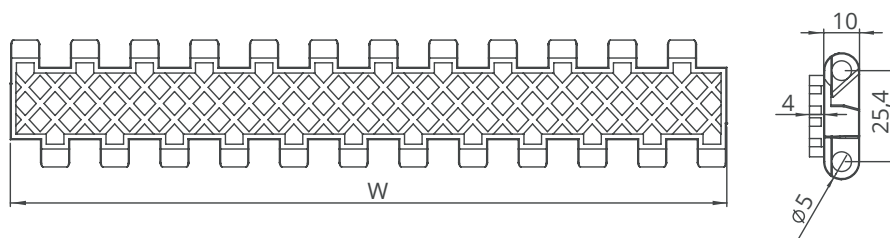


MD254 GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	14000 - 959	18000 - 1233
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m² lb/sqft²	8.7 / 1.74	8.7 / 1.74

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	50,0	100,0	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0
Belt Width inch	1.97	3.94	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46
Belt Width mm	900,0	950,0	1000,0	1050,0													
Belt Width inch	35.43	37.40	39.37	41.34													

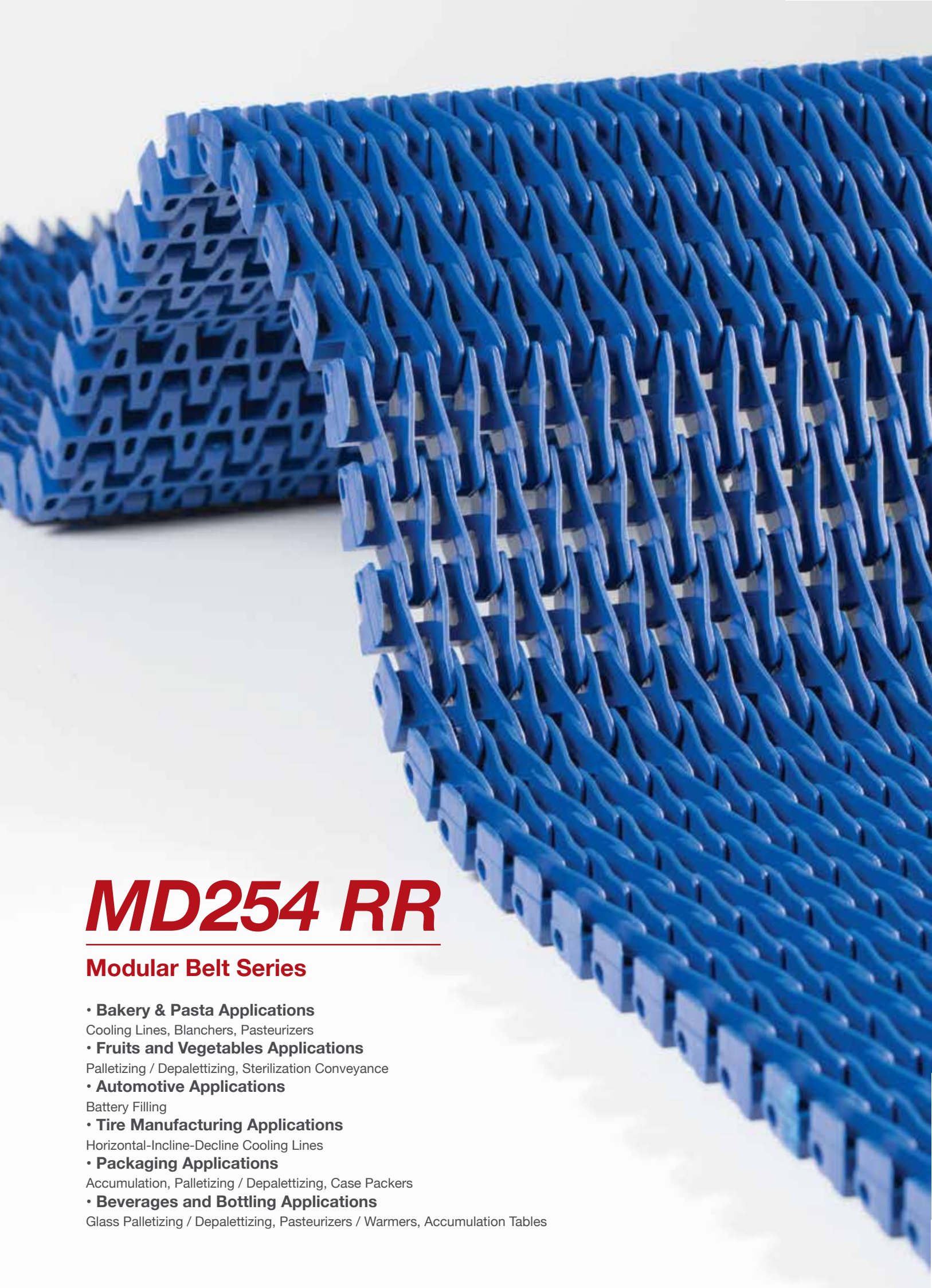


Product Features and Functional Benefits

- Unique rubber top eliminates wear and increases friction in incline-decline applications.
- Bi-directional belt for long conveyors.

Important Notes

- **Standard belt increments 50 mm.**
- **Non-standard belt increments 16,6 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Up to 750 mm (30") -1 mm to 2 mm and 0% to 0.45% for wider belts.



MD254 RR

Modular Belt Series

- **Bakery & Pasta Applications**

Cooling Lines, Blanchers, Pasteurizers

- **Fruits and Vegetables Applications**

Palletizing / Depalletizing, Sterilization Conveyance

- **Automotive Applications**

Battery Filling

- **Tire Manufacturing Applications**

Horizontal-Incline-Dcline Cooling Lines

- **Packaging Applications**

Accumulation, Palletizing / Depalletizing, Case Packers

- **Beverages and Bottling Applications**

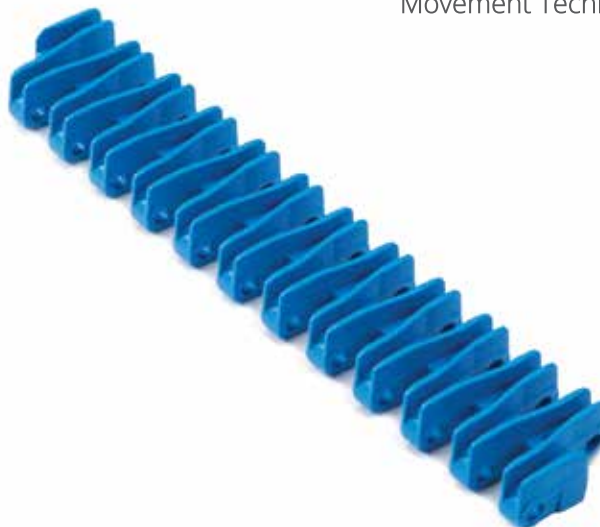
Glass Palletizing / Depalletizing, Pasteurizers / Warmers, Accumulation Tables



MODUTECH[®]
Movement Technologies

MD254 RR

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Raised Rib Surface
Minimum Width:	50 mm / 1.97 inch
Open Area (%):	33%. (Biggest opening 5,5 x 7 mm).
Flight:	No
Sidewall:	No
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.630 inch

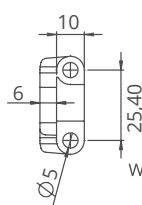
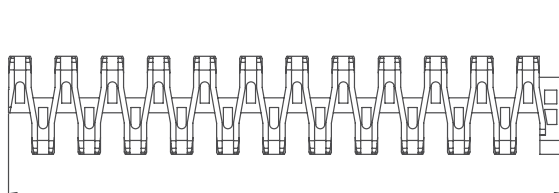


MD254 RR Technical Information

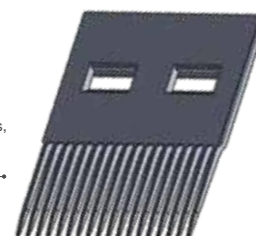
Belt Material		POM	POM	POM	PP	PPH
Pin Material		PA	POM	PP	PP	PPH
Belt Strength	N/m lb/ft	27000 - 1850	27000 - 1850	19000 - 1300	16000 - 1096	16000 - 1096
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +230
Belt Weight	kg/m ² lb/sqft ²	10.4 / 2.13	10.4 / 2.13	10.4 / 2.13	6.8 / 1.40	6.8 / 1.40

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0
Belt Width inch	5.91	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40
Belt Width mm	1000,0	1050,0	1100,0	1150,0													
Belt Width inch	39.37	41.34	43.31	45.28													



MD254 RR Comb / Finger Plate is available
This product is used for transferring of cans, bottles, etc.

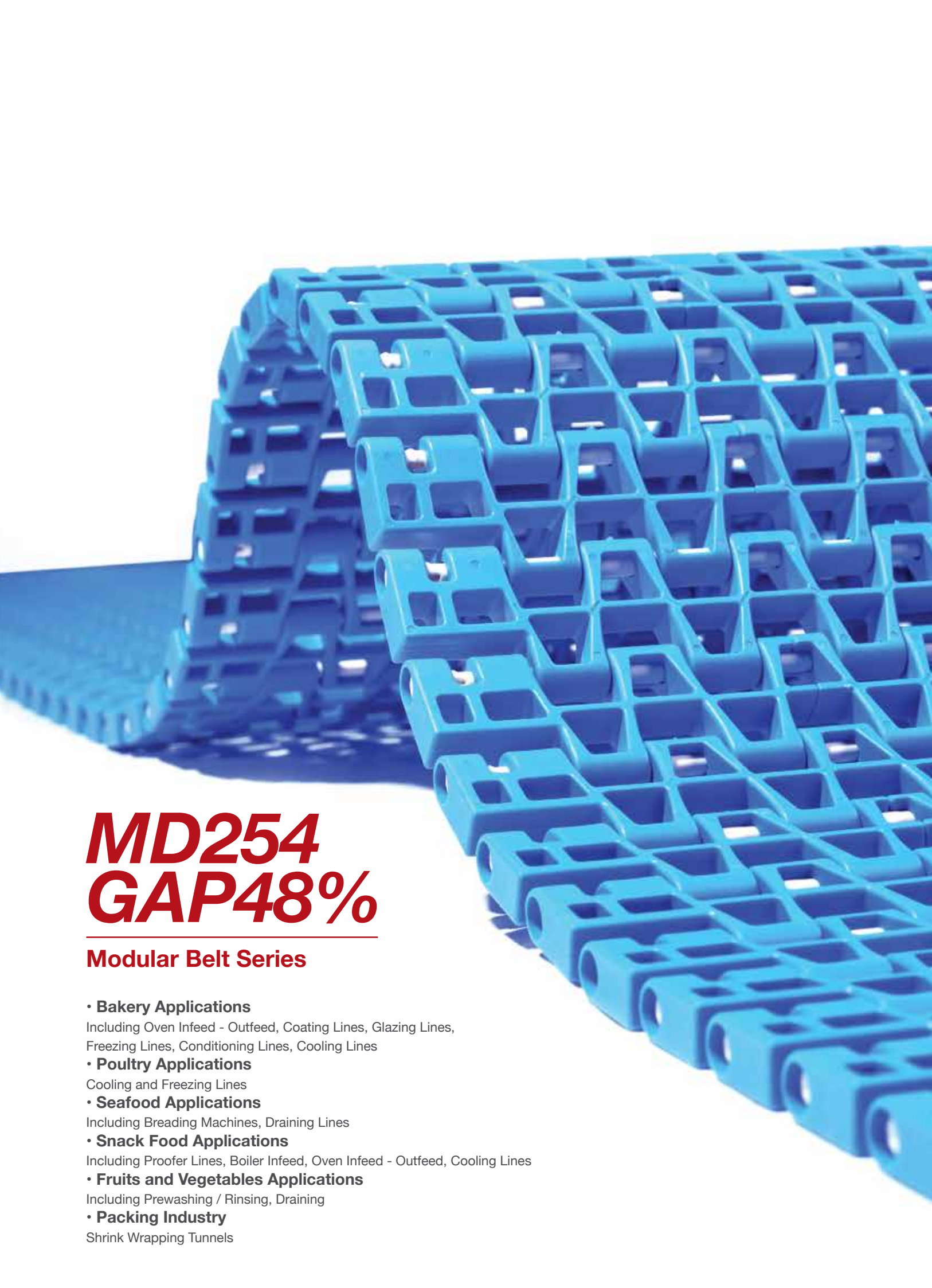


Product Features and Functional Benefits

- Less friction and product contact for easy cooking, cooling and freezing of products.
- Reduces back line pressure with up to 70%.
- Reduced dirt and oxide build up due to self cleaning surface.
- Finger plate for trouble free transfer.
- Bi-directional belt for long conveyors.

Important Notes

- **Standard belt increments 50 mm.**
- **Non-standard belt increments 16,6 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP material up to 750 mm (30") -2 mm to 1 mm and 0% to 0.3% for wider belts.
- For POM material up to 750 mm (30") -2 mm to 1 mm and 0% to 0.3% for wider belts.



MD254 GAP48%

Modular Belt Series

- **Bakery Applications**

Including Oven Infeed - Outfeed, Coating Lines, Glazing Lines, Freezing Lines, Conditioning Lines, Cooling Lines

- **Poultry Applications**

Cooling and Freezing Lines

- **Seafood Applications**

Including Breeding Machines, Draining Lines

- **Snack Food Applications**

Including Proofer Lines, Boiler Infeed, Oven Infeed - Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Including Prewashing / Rinsing, Draining

- **Packing Industry**

Shrink Wrapping Tunnels



MODUTECH®
Movement Technologies

MD254 GAP48%

Pitch:	25,7 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	203,2 mm / 8 inch
Open Area (%):	48%. (Biggest opening 9 x 13,5 mm and 6 x 16,5 mm)
Flight:	Yes
Sidewall:	No
Pin:	Ø 5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	11 mm / 0.433 inch

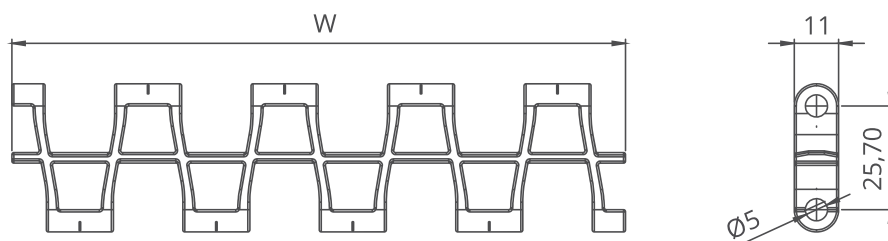


MD254 GAP48% Technical Information

Belt Material		POM	POM	POM	PP	PP	PA
Pin Material		PA	POM	PP	PP	POM	PA
Belt Strength	N/m lb/ft	15500 - 1062	15500 - 1062	15500 - 1062	9500 - 651	11000 - 754	15500 - 1062
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-46 / +130 -50 / +266
Belt Weight	kg/m² lb/sqft²	6.4 / 1.31	6.4 / 1.31	6.4 / 1.31	4.2 / 0.85	4.2 / 0.85	5.6 / 1.15

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	203,2	237,0	270,8	304,6	338,4	372,2	406,0	439,8	450,0	507,4	541,2	575,0	608,8	642,6	676,4	710,2	811,6
Belt Width inch	8.00	9.33	10.66	11.99	13.32	14.65	15.98	17.31	18.65	19.98	21.31	22.64	23.97	25.30	26.63	27.96	31.95
Belt Width mm	845,4	879,2															
Belt Width inch	33.28	34.61															



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.
- Easy to clean reduces downtime for cleaning time 70%.
- Stainless steel pins option reduce belt elongation for high temperature application.

Important Notes

- **Standard belt increments 33,8 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



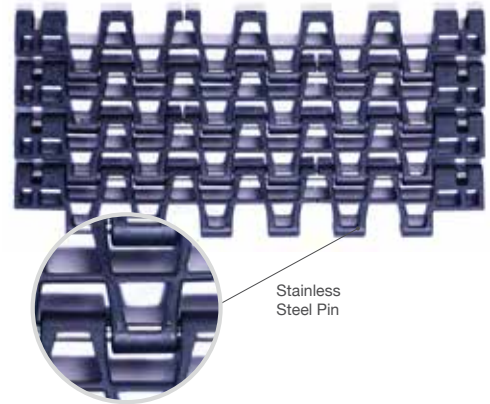
MD254 GAP48%-EHT

Modular Belt Series

• **Packaging Industry**
Shrink Wrapping Tunnels

MD254 GAP48%-EHT (Extra High Temperature)

Pitch:	25,7 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	203,2 mm / 8 inch
Open Area (%):	48%. (Biggest opening 9 x 13,5 mm and 6 x 16,5 mm)
Flight:	No
Sidewall:	No
Pin:	Ø 5 mm / 0.197 inch - Stainless Steel
Approved:	No
Color:	Black
Cleanability:	Excellent
Belt Thickness:	11 mm / 0.433 inch

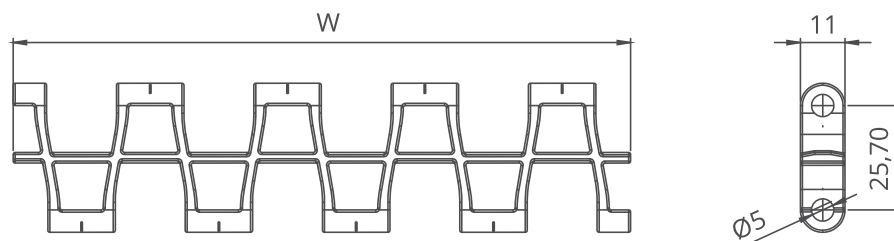


MD254 GAP48%-EHT Technical Information

Belt Material		EHT
Pin Material		SS
Belt Strength	N/m lb/ft	20000 - 1062
Temperature	°C °F	+4 / +230 +40 / +446
Belt Weight	kg/m ² lb/sqft ²	11.8 / 2.42

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	203,2	237,0	270,8	304,6	338,4	372,2	406,0	439,8	450,0	507,4	541,2	575,0	608,8	642,6	676,4	710,2	811,6
Belt Width inch	8.00	9.33	10.66	11.99	13.32	14.65	15.98	17.31	18.65	19.98	21.31	22.64	23.97	25.30	26.63	27.96	31.95
Belt Width mm	845,4	879,2															
Belt Width inch	33.28	34.61															



Product Features and Functional Benefits

- Open hinge is excellent for air and liquid flow.
- Very easy to clean.
- Stainless steel pins reduce belt elongation for high temperature application.

Important Notes

- Standard belt increments 33,8 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.

MD254 Series

Sprockets and Technical Specifications



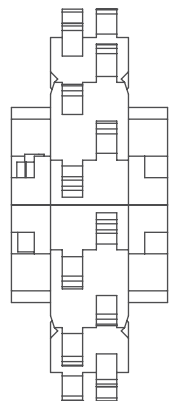
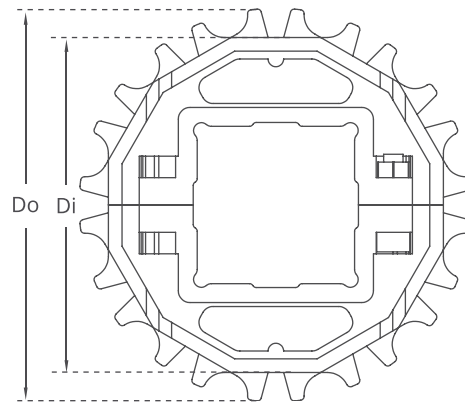
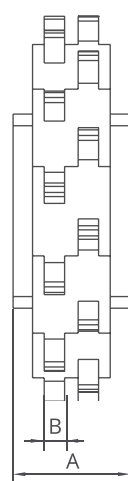
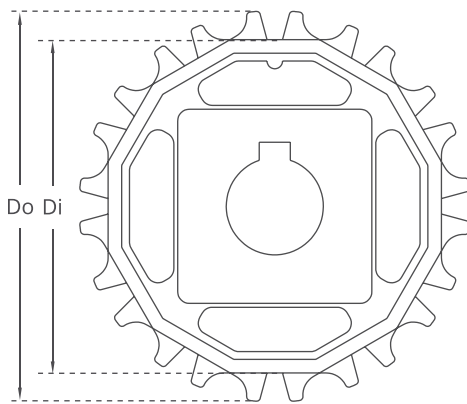
Z15



Z8



Z12-EHT



Split molded sprockets are available for the products with "Red" font color.

MD254 C Series / 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)
Z8*	52,0 / 2.05	67,0 / 2.64	5,3 / 0.21	30,0 / 1.18	25	1	25	1	MD-TR254SQZ8*POM	MD-TR254SRZ8*POM
Z10*	69,0 / 2.72	84,0 / 3.31	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ10*POM	MD-TR254SRZ10*POM
Z12*	85,8 / 3.38	100,8 / 3.97	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30-35	1-1.25	MD-TR254SQZ12*POM	MD-TR254SRZ12*POM
Z15*	110,8 / 4.36	125,8 / 4.95	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ15*POM	MD-TR254SRZ15*POM
Z16	119,1 / 4.69	134,1 / 5.28	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ16*POM	MD-TR254SRZ16*POM
Z18*	135,6 / 5.34	150,6 / 5.93	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30-35	1-1.25	MD-TR254SQZ18*POM	MD-TR254SRZ18*POM
Z20	152,0 / 5.98	167,1 / 6.58	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ20*POM	MD-TR254SRZ20*POM

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

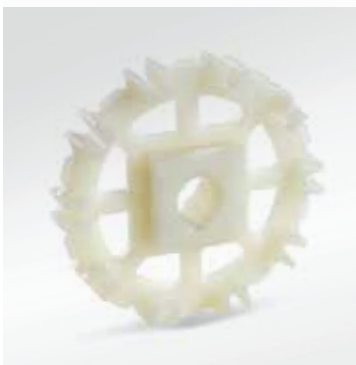
*Machined Split Sprockets are available for each size.



Clamp



Machined Split Sprocket



Moulded Sprocket



Machined Sprocket

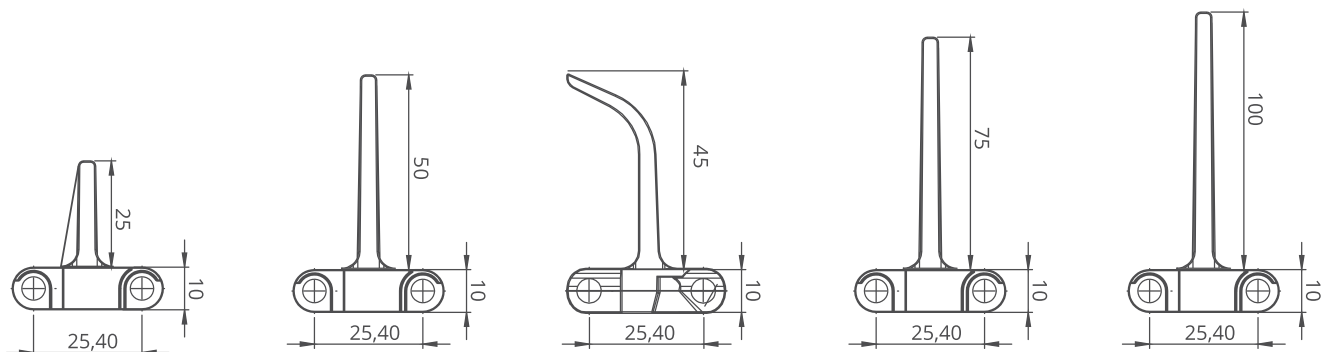
MD254 Series

Accessories and Technical Specifications

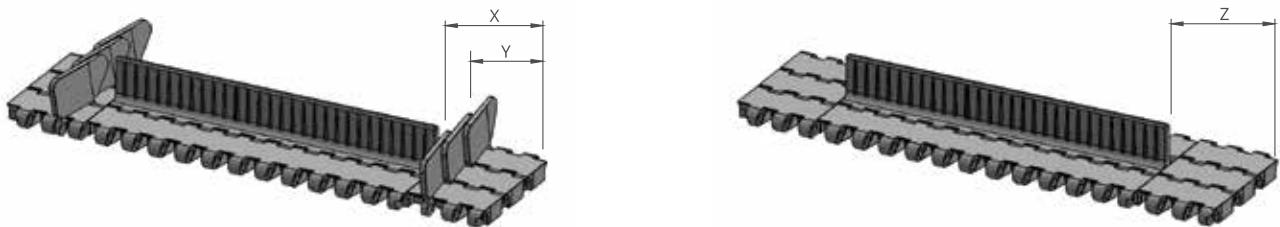


MD254 Series / Flight & Sidewall Dimensions

MD254 Series / Flights & Sidewalls				
PRODUCT CODE	Flight Height (mm/inch)	Flight Width (mm/inch)	PRODUCT CODE	Sidewall Height (mm/inch)
MD254T25	25 / 1	200 / 7.87	MD254SW25	25 / 1
MD254T50	45 / 1.75	200 / 7.87	MD254SW50	50 / 2
MD254T75	75 / 3	200 / 7.87	MD254SW75	75 / 3
MD254T100	100 / 4	200 / 7.87	MD254SW100	100 / 4
MD254TC50	50 / 2	200 / 7.87	-	-
MD254TCH50	50 / 2	200 / 7.87	-	-
MD254TNC75	75 / 3	200 / 7.87	-	-
MD254TNC100	100 / 4	200 / 7.87	-	-



* Additional flight dimensions are available up to 100 mm.



MD254 Series / Flight & Sidewall Technical Specifications

Possible Sidewall and Flights Indents	X		Y		Z	
	mm	inch	mm	inch	mm	inch
Standard, module cutting	25,7	1.01	15,2	0.60	33,3	1.31
Non-Standard, module cutting	34,0	1.34	23,6	0.93	41,7	1.64
Standard, module cutting	42,3	1.67	31,9	1.26	50,0	1.97
Non-Standard, module cutting	50,7	1.99	40,2	1.58	58,3	2.30
Standard, no module cutting	59,0	2.32	48,6	1.91	66,7	2.62

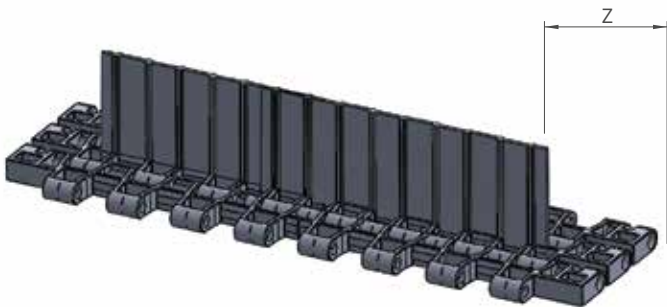
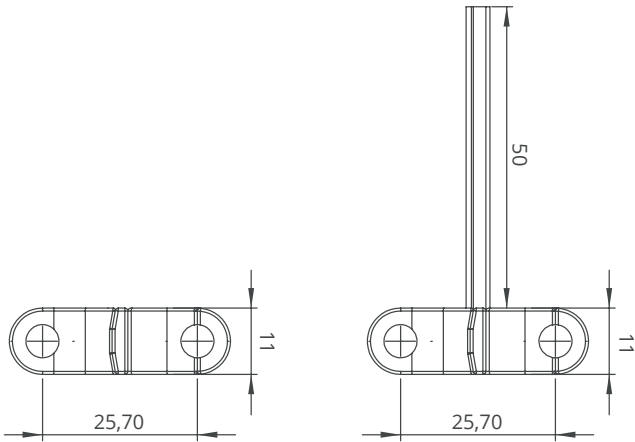
MD254 GAP48% Series

Engineering Information



MD254 GAP48% Series / Flight Dimensions

MD254 GAP48% Series / Flights				
PRODUCT CODE	Flight Height (mm/inch)	Flight Width (mm/inch)	PRODUCT CODE	Sidewall Height (mm/inch)
MD254G48T50	50 / 2	152 / 6	-	-



MD254 GAP48% Series / Flight Technical Specifications

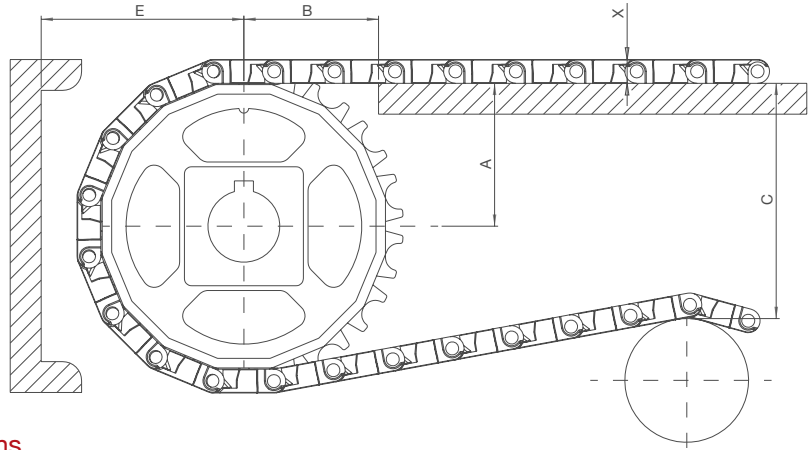
Possible Flight Indents for MD254GAP48% Series	Z	
	mm	inch
Standard, no module cutting	27,8	1.09
Non-Standard, module cutting	34,1	1.34
Non-Standard, module cutting	67,9	2.67
Non-Standard, module cutting	101,7	4.00

*Non-standard flight indent is on request.

MD254 Series

Engineering Information

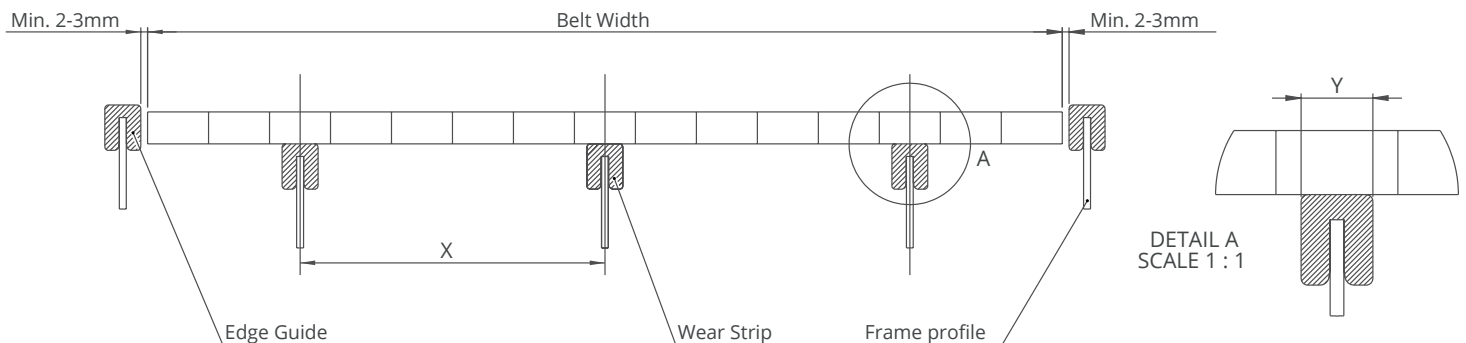
A - $\pm 0,031"$ (1mm) C - $\pm$ (Max.)
 B - $\pm 0,125"$ (3mm) E - $\pm$ (Min.)



MD254 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								
MD254 FG, MD254 C, MD254 GAP48%												
2.38	60,5	8	1.15	29,2	1.55	39,4	1.95	49,5	1.94	49,2	0.39	10,0
3.07	78,0	10	1.46	37,1	1.77	45,0	2.60	66,1	2.25	57,1	0.39	10,0
3.74	95,0	12	1.76	44,8	1.97	50,1	3.24	82,3	2.55	64,8	0.39	10,0
4.70	119,5	15	2.22	56,4	2.23	56,7	4.18	106,1	3.01	76,4	0.39	10,0
5.02	127,5	16	2.37	60,2	2.38	60,5	4.46	113,2	3.21	81,5	0.39	10,0
5.71	145,0	18	2.73	69,3	2.45	62,3	5.19	131,8	3.51	89,3	0.39	10,0
6.46	164,0	20	3.03	77,0	2.64	67,0	5.82	148,0	3.86	98,0	0.39	10,0
MD254 RR, MD254 GT												
2.38	60,5	8	1.15	29,2	1.55	39,4	1.95	49,5	2.18	55,4	0.64	16,3
3.07	78,0	10	1.46	37,1	1.77	45,0	2.60	66,1	2.48	63,1	0.64	16,3
3.74	95,0	12	1.76	44,8	1.97	50,1	3.24	82,3	2.79	70,9	0.64	16,3
4.70	119,5	15	2.22	56,4	2.23	56,7	4.18	106,1	3.25	82,7	0.64	16,3
5.02	127,5	16	2.37	60,2	2.38	60,5	4.46	113,2	3.46	87,8	0.64	16,3
5.71	145,0	18	2.73	69,3	2.45	62,3	5.19	131,8	3.76	95,5	0.64	16,3
6.46	164,0	20	3.03	77,0	2.64	67,0	5.82	148,0	4.10	104,5	0.64	16,3
MD254 FG-RT, MD254 C-RT												
2.38	60,5	8	0.99	25,2	1.55	39,4	1.79	45,5	2.09	53,2	0.71	18,0
3.07	78,0	10	1.30	33,1	1.77	45,0	2.44	62,1	2.41	61,1	0.71	18,0
3.74	95,0	12	1.61	40,8	1.97	50,1	3.08	78,3	2.71	68,8	0.71	18,0
4.70	119,5	15	2.06	52,4	2.23	56,7	4.02	102,1	3.17	80,4	0.71	18,0
5.02	127,5	16	2.21	56,2	2.38	60,5	4.30	109,2	3.37	85,5	0.71	18,0
5.71	145,0	18	2.57	65,3	2.45	62,3	5.03	127,8	3.67	93,3	0.71	18,0
6.46	164,0	20	2.87	73,0	2.64	67,0	5.66	144,0	4.01	102,0	0.71	18,0

MD254 Series / Slider Support System For Straight Running Belts



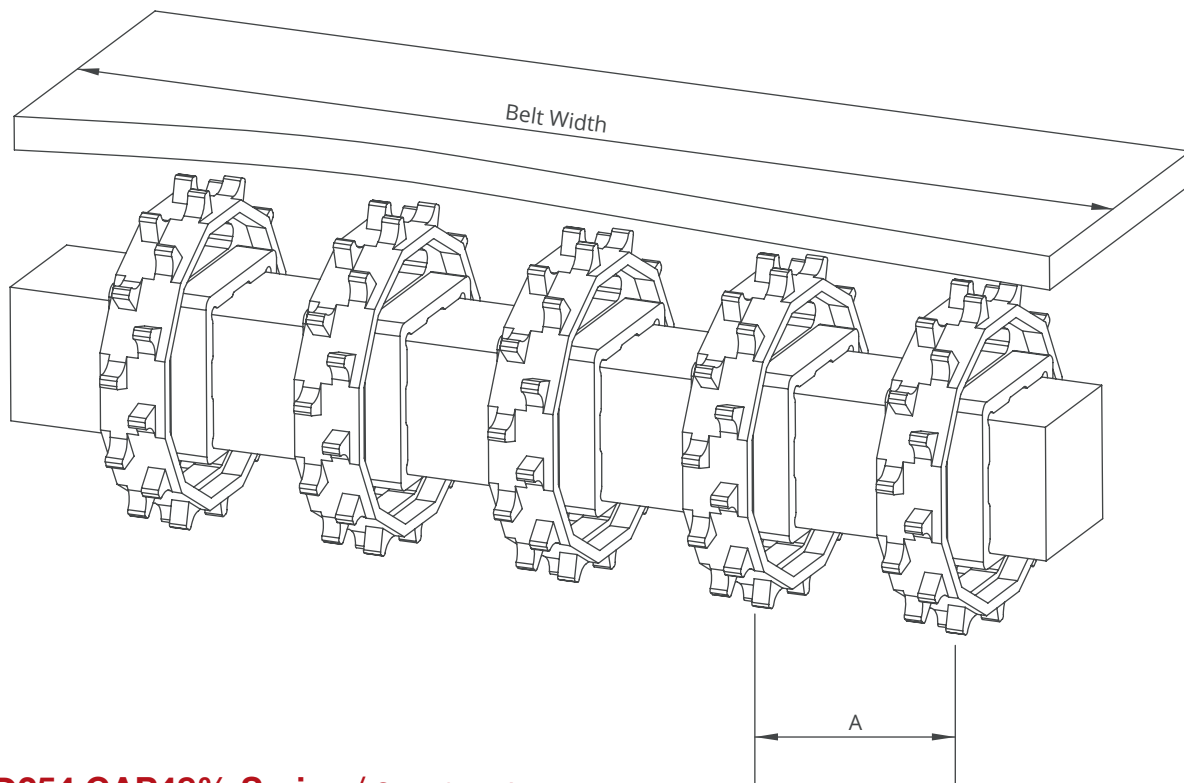
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

MD254 GAP48% Series

Engineering Information



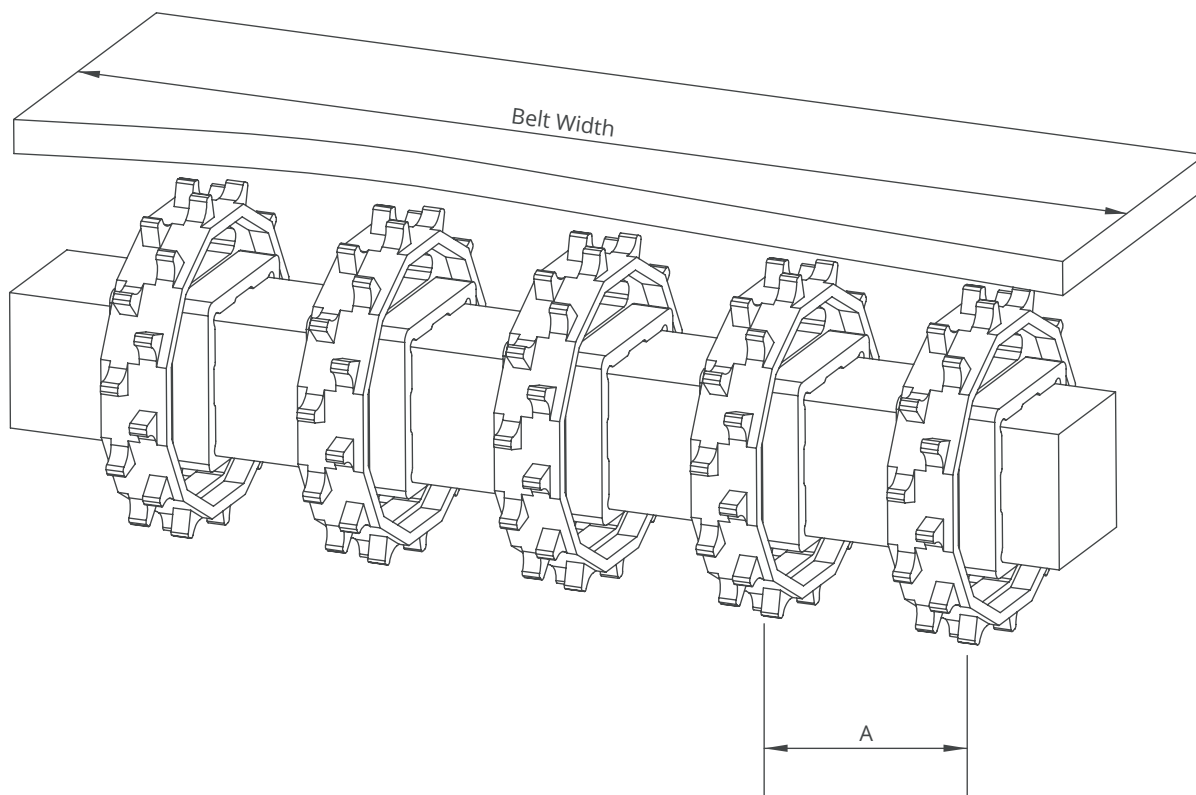
MD254 GAP48% Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
203,2	8.0	2	2	60/2.36	170/6.6
237,0	9.3	2	2	60/2.36	170/6.6
270,8	10.7	2	2	60/2.36	170/6.6
304,6	12.0	3	2	60/2.36	170/6.6
338,4	13.3	3	2	60/2.36	170/6.6
372,2	14.7	4	3	60/2.36	170/6.6
406,0	16.0	4	3	60/2.36	170/6.6
439,8	17.3	4	3	60/2.36	170/6.6
473,6	18.6	5	3	60/2.36	170/6.6
507,4	20.0	5	3	60/2.36	170/6.6
541,2	21.3	5	3	60/2.36	170/6.6
575,0	22.6	5	3	60/2.36	170/6.6
608,8	24.0	6	4	60/2.36	170/6.6
642,6	25.3	6	4	60/2.36	170/6.6
676,4	26.6	6	4	60/2.36	170/6.6
710,2	28.0	7	4	60/2.36	170/6.6
744,0	29.3	7	4	60/2.36	170/6.6
777,8	30.6	7	4	60/2.36	170/6.6
811,6	32.0	7	4	60/2.36	170/6.6
845,4	33.3	8	4	60/2.36	170/6.6
879,2	34.6	8	5	60/2.36	170/6.6
913,0	35.9	8	5	60/2.36	170/6.6
946,8	37.3	8	5	60/2.36	170/6.6
980,6	38.6	8	5	60/2.36	170/6.6
1014,4	39.9	9	5	60/2.36	170/6.6
1048,2	41.3	9	5	60/2.36	170/6.6

Note: Number of sprockets depends on the belt load.

MD254 Series

Engineering Information



MD254 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
150,0	6.0	2	2	50/2	120/4.7
200,0	8.0	2	2	50/2	120/4.7
250,0	10.0	3	2	50/2	120/4.7
300,0	12.0	3	2	50/2	120/4.7
350,0	14.0	3	3	50/2	120/4.7
400,0	16.0	4	3	50/2	120/4.7
450,0	18.0	4	3	50/2	120/4.7
500,0	20.0	5	4	50/2	120/4.7
550,0	22.0	5	4	50/2	120/4.7
600,0	24.0	6	5	50/2	120/4.7
700,0	26.0	7	5	50/2	120/4.7
800,0	28.0	8	6	50/2	120/4.7
900,0	30.0	9	7	50/2	120/4.7
1000,0	32.0	10	7	50/2	120/4.7

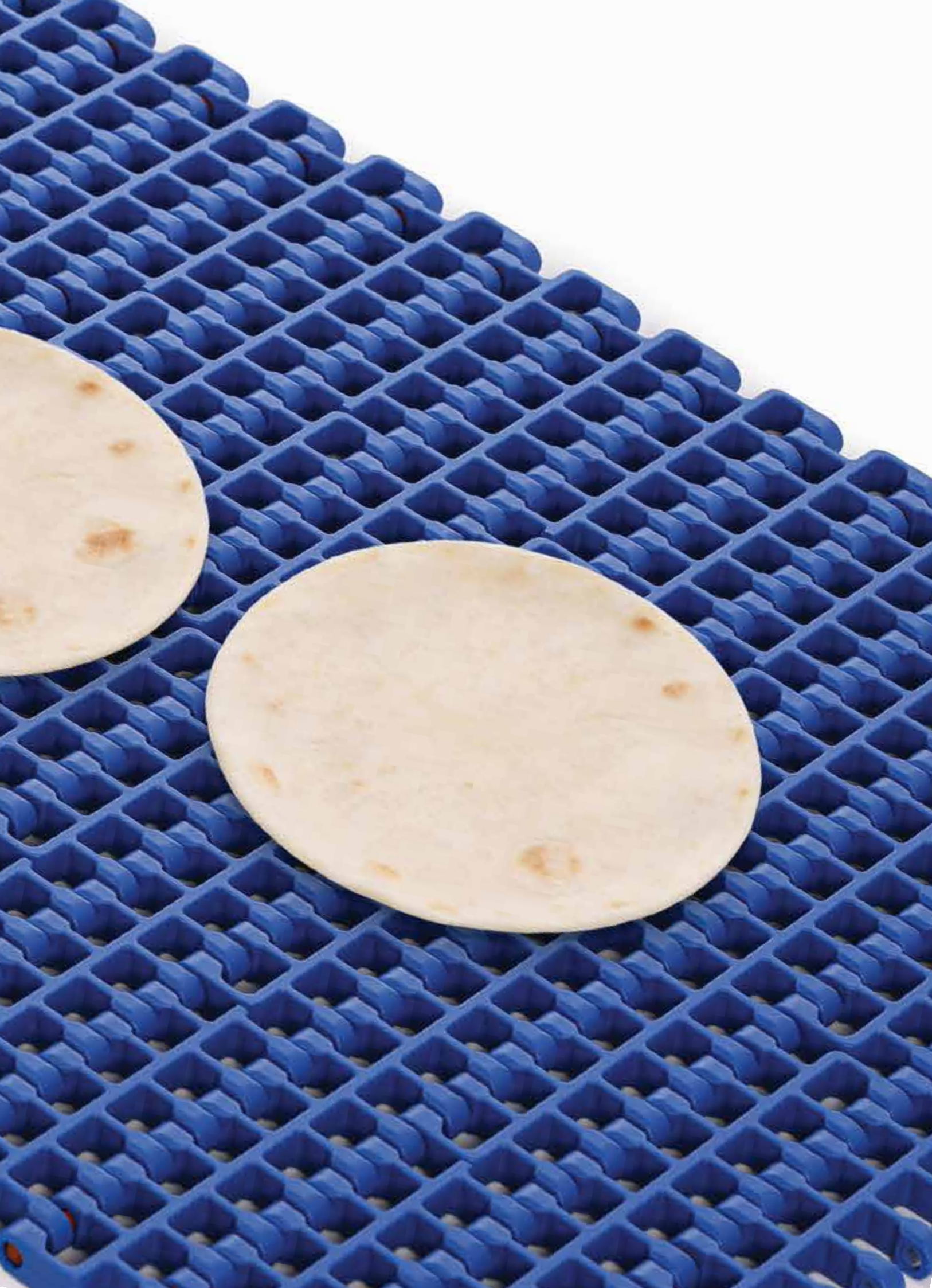
Note: Number of sprockets depends on the belt load.

SM254 FG50%

Modular Belt Series

*SM254 FG50%
Sprockets
Engineering Information*







SM254 FG50%

Modular Belt Series

Bakery Applications
Including Oven Infeed - Outfeed,
Cooling Lines



MODUTECH[®]
Movement Technologies

SM254 FG50%

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,40 mm / 6 inch
Open Area (%):	50%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Color:	Blue
Cleanability:	Good
Belt Thickness:	8,8 mm / 0.346 inch



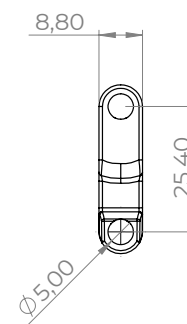
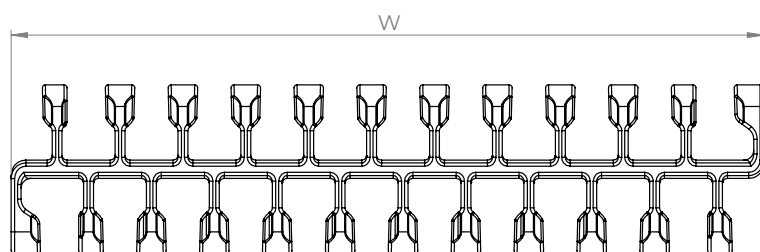
SM254 FG50% Technical Information

Belt Material		PA6
Pin Material		PA6
Belt Strength	N/m lb/ft	13000 - 890
Temperature	°C °F	-46 / +116 -50 / +240
Belt Weight	kg/m ² lb/sqft ²	3,7 / 0.76



Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	76,2	152,4	228,6	304,8	381,0	457,20	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8
Belt Width inch	3.00	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00	57.00
Belt Width mm	1524,0	1600,2																	
Belt Width inch	60.00	63.00																	



Product Features and Functional Benefits

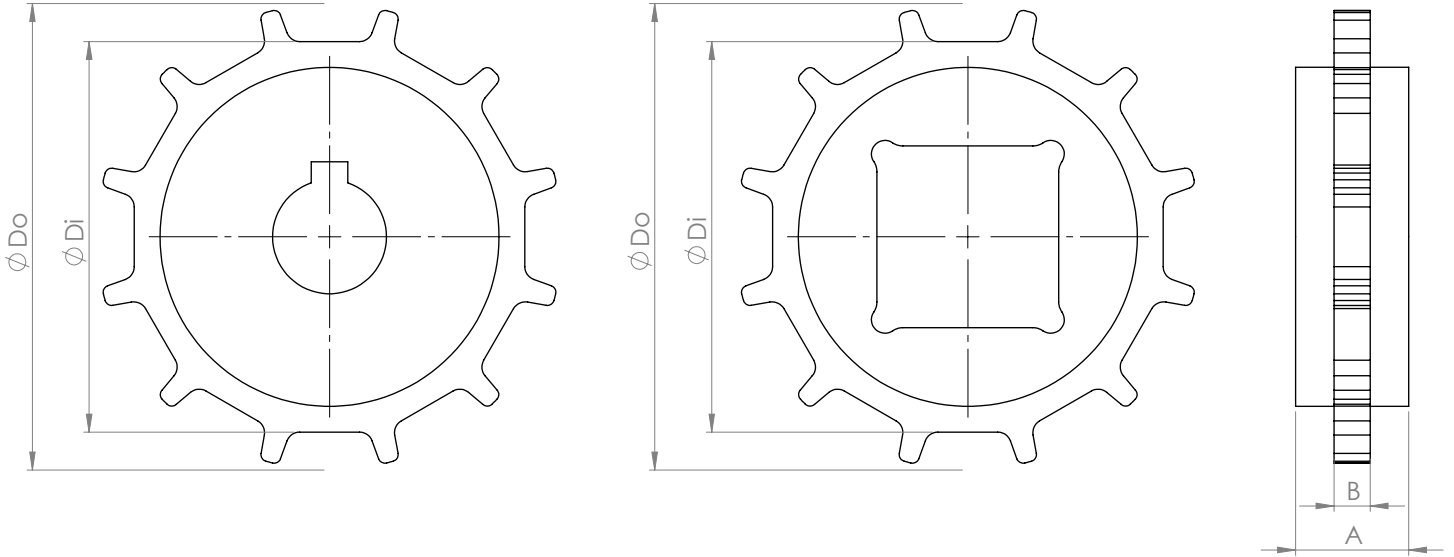
- Belt provides optimal open area for drainage and airflow.
- Less friction and product contact for easy cooking, cooling and freezing of products.
- Reduced dirt and oxide buildup thanks to the self-cleaning surface.
- Bi-directional belt for long conveyors.
- Easy-to-clean, reduces cleaning time and associated downtime by up to 70%
- Halogen free.
- Flame Retardant.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 12,7 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.

SM254FG50 Series

Sprockets and Technical Specifications



SM254FG50 Series / Machined Sprocket Dimensions

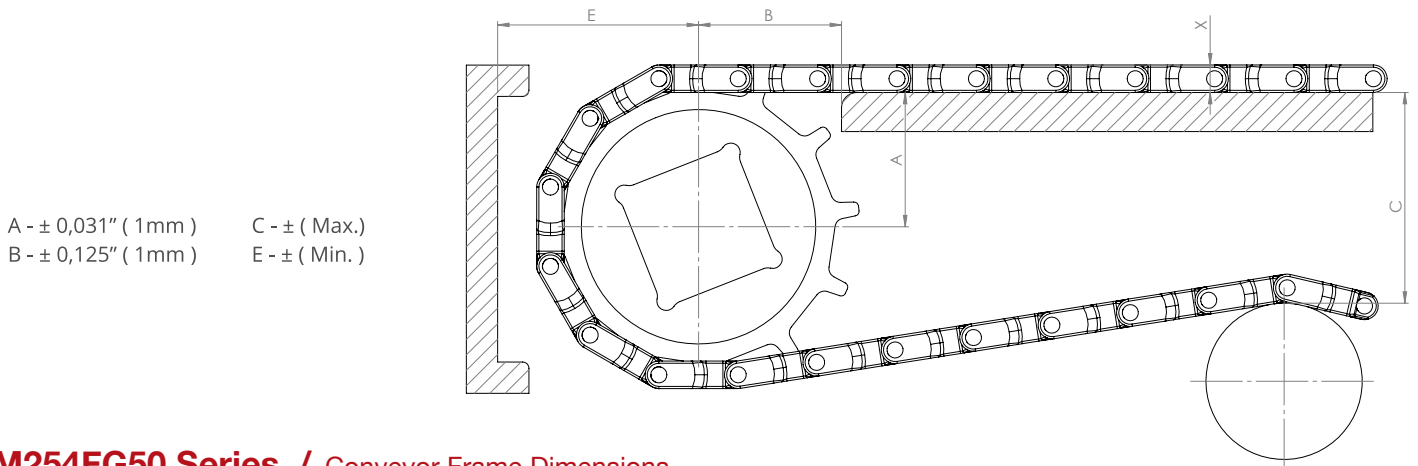
NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z10	69,77 / 2.75	86,57 / 3.41	25,00 / 0.98	8,00 / 0.31	25	1	25	1	SM254FG50SQZ10*POM	SM254FG50SRZ10*POM
Z12	86,39 / 3.40	103,19 / 4.06	25,00 / 0.98	8,00 / 0.31	25 to 40	1 to 1.5	25 to 30	1 to 1.25	SM254FG50SQZ12*POM	SM254FG50SRZ12*POM
Z16	119,29 / 4.70	136,09 / 5.36	25,00 / 0.98	8,00 / 0.31	25 to 40	1 to 1.5	25 to 30	1 to 1.25	SM254FG50SQZ16*POM	SM254FG50SRZ16*POM
Z20	151,97 / 5.98	168,77 / 6.64	25,00 / 0.98	8,00 / 0.31	25 to 40	1.5 to 2.5	25 to 30	1 to 1.25	SM254FG50SQZ20*POM	SM254FG50SRZ20*POM

*All required sprockets machined by CNC.

*Other sprockets and hub sizes are manufactured on request.

*PA (Polyamide) sprockets are available on request.

*Machined Split Sprockets are available on request.

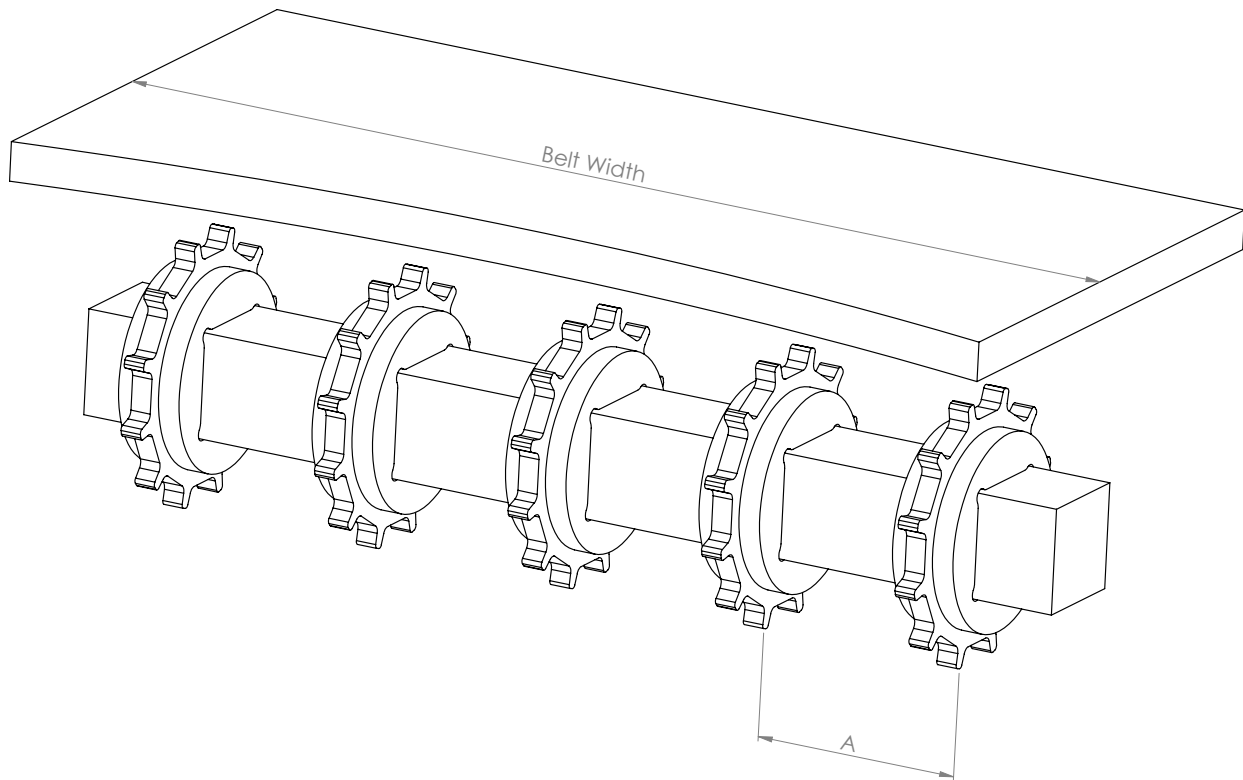


SM254FG50 Series / Conveyor Frame Dimensions

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								
SM254FG50												
2.99	75,95	10	1.44	36,69	1.73	44,00	2.50	63,5	2.18	55,49	0.35	8,8
3.64	92,57	12	1.77	48,65	1.93	48,90	3.13	79,5	2.51	63,80	0.35	8,8
4.94	125,47	16	2.42	61,45	2.04	51,73	4.37	111,1	3.16	80,25	0.35	8,8
6.23	158,15	20	3.06	77,79	2.54	64,47	5.59	142,0	3.80	96,59	0.35	8,8

SM254FG50 Series

Engineering Information



SM254FG50 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
152,4	6	2	2	2	60 / 2.36	150 / 5.9
228,6	9	2	2	2	60 / 2.36	150 / 5.9
304,8	12	3	3	2	60 / 2.36	150 / 5.9
381,0	15	3	3	2	60 / 2.36	150 / 5.9
457,2	18	4	4	2	60 / 2.36	150 / 5.9
533,4	21	4	4	2	60 / 2.36	150 / 5.9
609,6	24	5	5	3	60 / 2.36	150 / 5.9
685,8	27	5	5	3	60 / 2.36	150 / 5.9
762,0	30	6	6	3	60 / 2.36	150 / 5.9
838,2	33	6	6	3	60 / 2.36	150 / 5.9
914,4	36	7	7	4	60 / 2.36	150 / 5.9
990,6	39	7	7	4	60 / 2.36	150 / 5.9
1066,8	42	8	8	4	60 / 2.36	150 / 5.9
1143,0	45	9	8	4	60 / 2.36	150 / 5.9
1219,2	48	9	9	4	60 / 2.36	150 / 5.9
1295,4	51	11	10	5	60 / 2.36	150 / 5.9
1371,6	54	11	10	5	60 / 2.36	150 / 5.9
1447,8	57	11	12	6	60 / 2.36	150 / 5.9
1524,0	60	13	12	6	60 / 2.36	150 / 5.9
1600,2	63	13	14	7	60 / 2.36	150 / 5.9

Note:

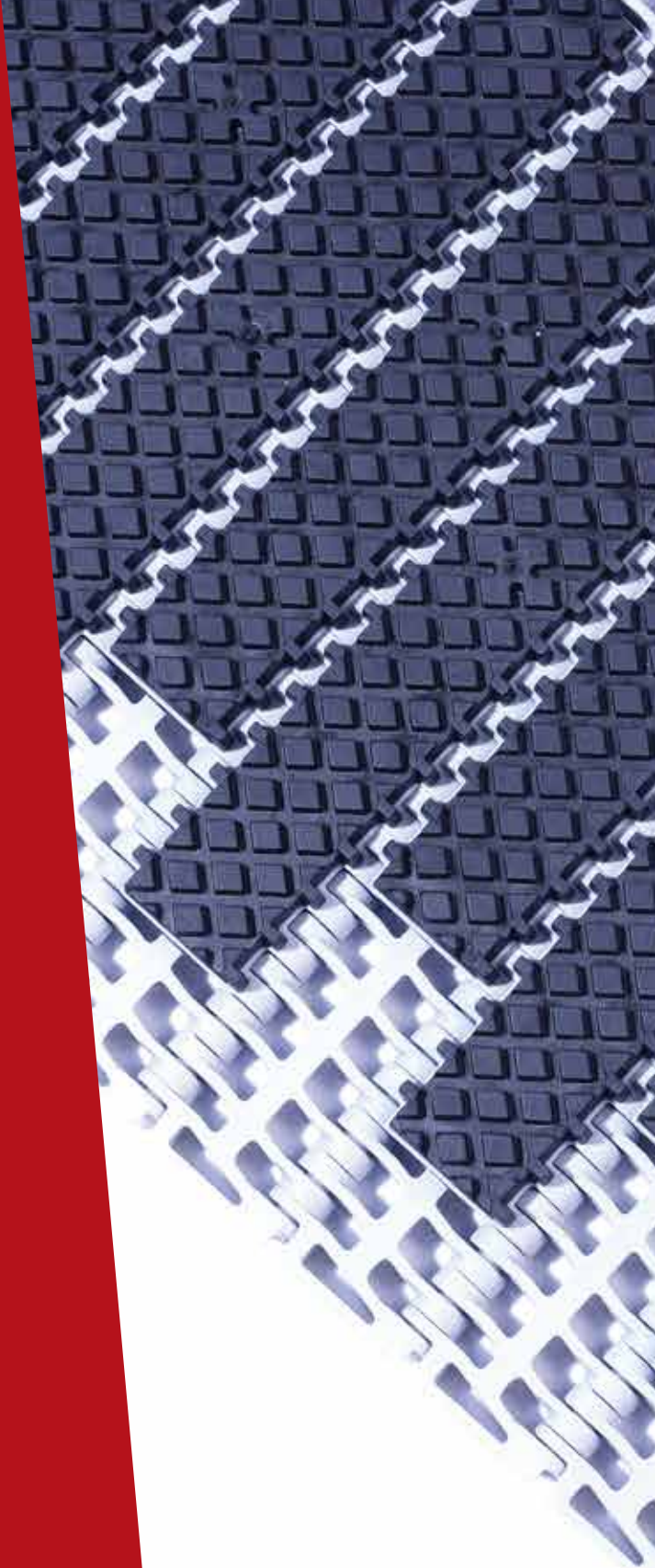
*Number of sprockets depends on the belt load.

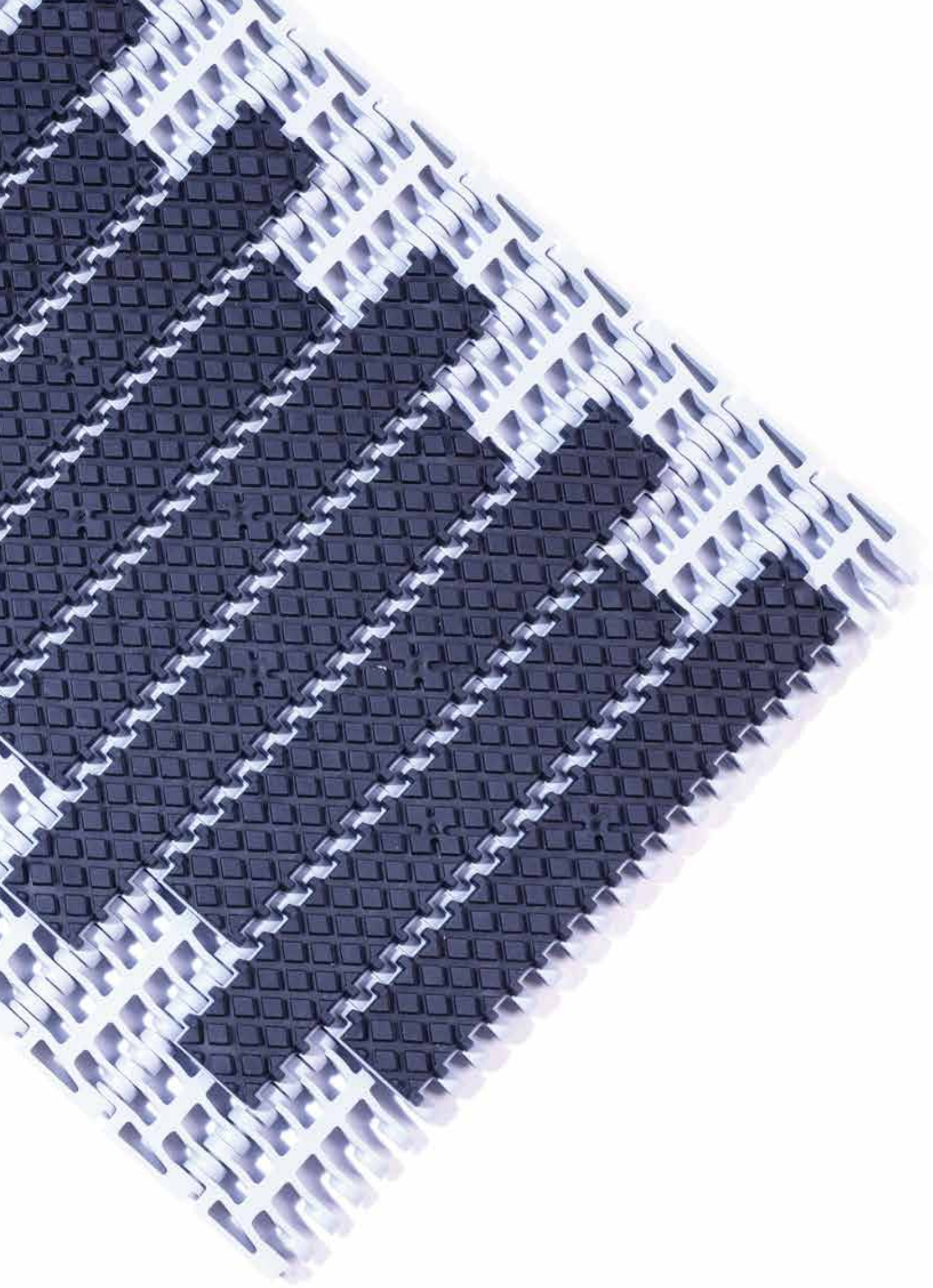
HC272

Modular Belt Series

HC272 C
HC272 C-PT
HC272 FG
HC272 FG-PT
HC272 GT / Friction Top
HC272 MT
HC272 OG
HC272 RR

Sprockets % Accessories
Engineering Information



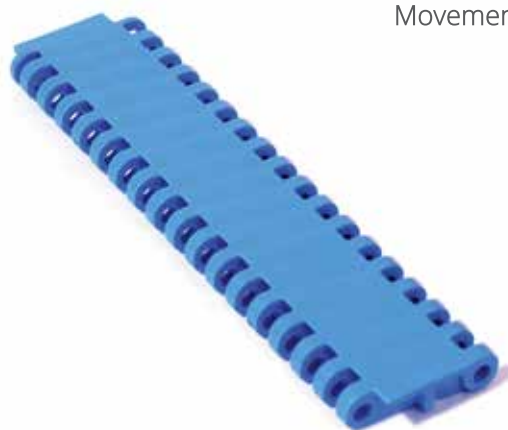




MODUTECH[®]
Movement Technologies

HC272 C

Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	50,8 mm / 2.00 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	9,75 mm / 0.384 inch

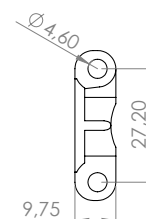
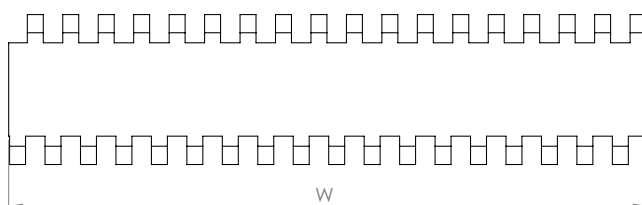


HC272 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		POM	PA	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	25000 / 1713	25000 / 1713	21750 / 1490	10300 / 707	10300 / 707	5200 / 356	5200 / 356
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	7,55 / 1.55	7,55 / 1.55	7,40 / 1.52	5,09 / 1.04	5,26 / 1.08	5,56 / 1.14	5,28 / 1.08

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

- Strong hinge design.
- Closed-Flat top surface.
- Food approved materials

Important Notes

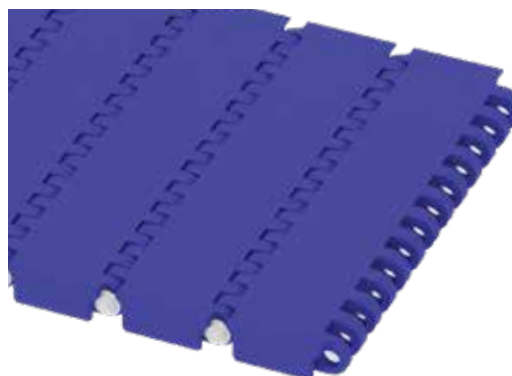
- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.



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Movement Technologies

HC272 C-PT

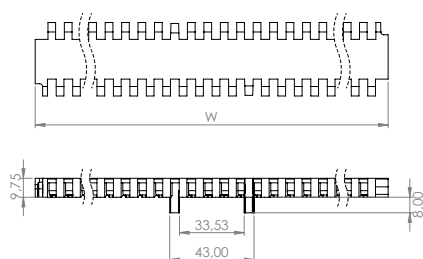
Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Close, Smooth Surface
Molded Widths:	82,5 mm / 3.25 inch 114 mm / 4.5 inch 191 mm / 7.5 inch 85 mm / 3.35 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	9,75 mm / 0.384 inch



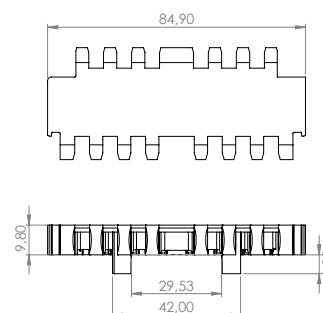
HC272 C-PT Technical Information

Product Code	Belt Width (W)		Belt Material	Pin Material	Belt Strength		Temperature		Belt Weight	
	mm	inch			N/m	lb/ft	°C	°F	kg/m ²	lb/sqft ²
HC272C-PT-82	82,5	3.25	PP	PA	580	40	+5 / +105	+40 / +200	0,56	0.11
			POM	PA	1100	75	- 40 / +93	-40 / +200	0,78	0.16
HC272C-PT-114	114	4.5	PP	PA	1200	82	+5 / +105	+40 / +200	0,79	0.16
			POM	PA	2500	171	- 40 / +93	-40 / +200	1,12	0.23
HC272C-PT-190	191	7.5	PP	PA	2000	137	+5 / +105	+40 / +200	1,26	0.26
			POM	PA	3600	247	- 40 / +93	-40 / +200	1,78	0.36
HC272C-PT-85	85	3.35	PP	PA	1200	82	+5 / +105	+40 / +200	0,57	0.12
			POM	PA	2300	157	- 40 / +93	-40 / +200	0,80	0.16

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-



Belt Width mm	82,55	114	190
Belt Width inch	3.25	4.5	7.5



Belt Width mm	85,0
Belt Width inch	3.35

Product Features and Functional Benefits

- Strong hinge design.
- Closed-Flat top surface.
- Molded positrack design to support the belt under heavy side transfer applications.
- Food approved materials

Important Notes

- Standard molded belt widths are specified in the table above.
- Standard packing lengths = 3046 mm / 10 ft (112 links)
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.



MODUTECH[®]
Movement Technologies

HC272 FG



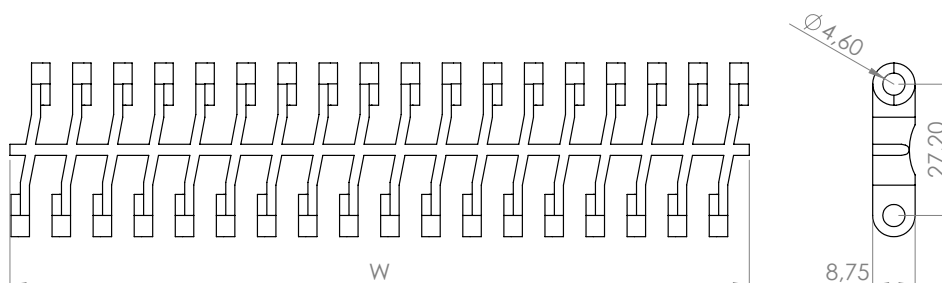
Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	50,8 mm / 2.00 inch
Open Area (%):	38% (Biggest Oppening 6,4 x 8,0 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8,75 mm / 0.344 inch

HC272 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE	PA
Pin Material		POM	PA	PP	PP	POM	POM	PE	PA
Belt Strength	N/m lb/ft	25000 / 1713	25000 / 1713	21750 / 1490	10300 / 707	10300 / 707	5200 / 356	5200 / 356	18000 / 1230
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150	-46 / 150 -46 / 302
Belt Weight	kg/m ² lb/sqft ²	5,90 / 1.21	5,90 / 1.21	5,70 / 1,17	3,90 / 0.80	4,29 / 0.88	4,50 / 0.92	4,16 / 0.85	5,45 / 1.12

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

- Open hinge design support efficient drainage and cooling operations.
- Easy to clean.
- Food approved materials

Important Notes

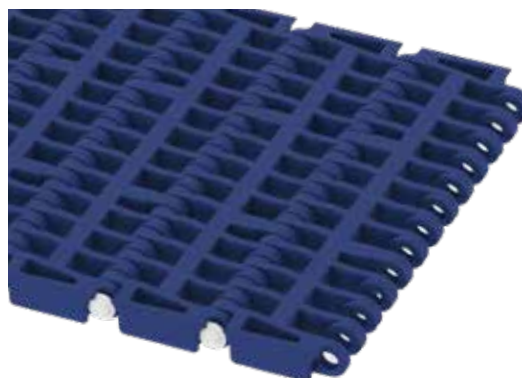
- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.



MODUTECH®
Movement Technologies

HC272 FG-PT

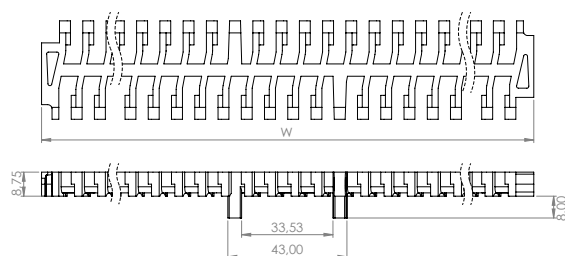
Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Open, Smooth Surface
Molded Widths:	82,5 mm / 3.25 inch 114 mm / 4.5 inch 191 mm / 7.5 inch 85 mm / 3.35 inch
Open Area (%):	38% (Biggest Opening 6,4 x 8,0)
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	8,75 mm / 0.344 inch



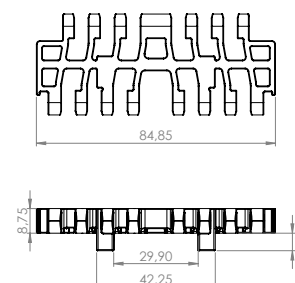
HC272 FG-PT Technical Information

Product Code	Belt Width (W)		Belt Material	Pin Material	Belt Strength		Temperature		Belt Weight	
	mm	inch			N/m	lb/ft	°C	°F	kg/m²	lb/sqft²
HC272FG-PT-82	82,5	3.25	PP	PA	600	41	+5 / +105	+40 / +200	0,48	0.10
			POM	PA	1200	82	- 40 / +93	-40 / +200	0,64	0.13
HC272FG-PT-114	114	4.5	PP	PA	1250	86	+5 / +105	+40 / +200	0,60	0.12
			POM	PA	2600	178	- 40 / +93	-40 / +200	0,82	0.17
HC272FG-PT-190	191	7.5	PP	PA	2100	144	+5 / +105	+40 / +200	0,90	0.18
			POM	PA	3650	250	- 40 / +93	-40 / +200	1,28	0.26
HC272FG-PT-85	85	3.35	PP	PA	800	55	+5 / +105	+40 / +200	0,49	0.10
			POM	PA	1300	89	- 40 / +93	-40 / +200	0,66	0.14

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-



Belt Width mm	82,55	114	190
Belt Width inch	3.25	4.5	7.5



Belt Width mm	85,0
Belt Width inch	3.35

Product Features and Functional Benefits

- Strong hinge design.
- Open-Flat top surface.
- Molded positrack design to support the belt under heavy side transfer applications.
- Food approved materials

Important Notes

- Standard molded belt widths are specified in the table above.
- Standard packing lengths = 3046 mm / 10 ft (112 links)
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.



MODUTECH®
Movement Technologies

HC272 GT

Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Close, Friction Surface
Minimum Width:	76,2 mm / 3.00 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	14,75 mm / 0.58 inch

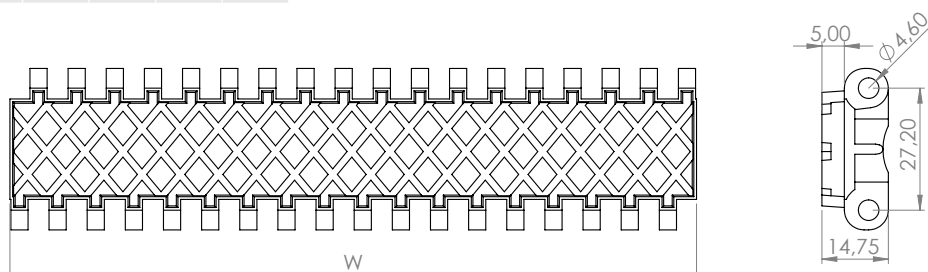


HC272 GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	14700 / 1007	14700 / 1007
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m² lb/sqft²	7,35 / 1.50	7,62 / 1.56

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

- Flush grid rubber top surface for incline/decline conveyors
- Operational & Environmental conditions can affect the performance of rubber top surface
- Square friction top surface
- Food approved materials

Important Notes

- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Minimum rubber indent 25,4mm (1") recommended.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.



MODUTECH[®]
Movement Technologies

HC272 MT

Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	50,8 mm / 2.00 inch
Open Area (%):	24% (Approximately Biggest Opening 1,4 x 7,25 mm)
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	9,75 mm / 0.383 inch

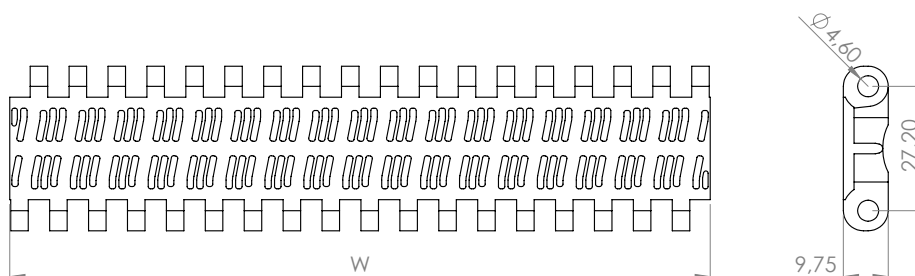


HC272 MT Technical Information

Belt Material		POM	POM	PP	PP	PE	PE
Pin Material		POM	PA	PP	POM	POM	PE
Belt Strength	N/m lb/ft	25000 / 1713	25000 / 1713	10500 - 719	10500 - 719	5500 - 377	5500 - 377
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m ² lb/sqft ²	7,16 / 1.58	7,16 / 1.58	4,58 / 0.94	4,91 / 1.01	5,18 / 1.06	4,89 / 1.00

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

- 24% open area for drainage and cooling operations.
- Easy to clean.
- Food approved materials

Important Notes

- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.



MODUTECH[®]
Movement Technologies

HC272 OG

Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Open, Grid Surface
Minimum Width:	50,8 mm / 2.00 inch
Open Area (%):	38% (Biggest Opening 6,4 x 8,0)
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	13,55 mm / 0.533 inch

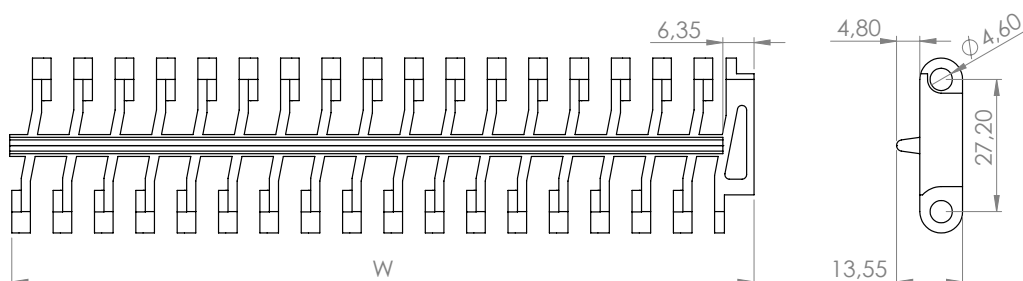


HC272 OG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		POM	PA	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	25000 / 1713	25000 / 1713	21750 / 1490	10300 / 707	10600 / 726	5500 / 377	5200 / 356
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m ² lb/sqft ²	6,55 / 1.34	6,55 / 1.34	6,19 / 1.27	4,19 / 0.86	4,55 / 0.93	4,79 / 0.98	4,48 / 0.92

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

- Open hinge design support efficient drainage and cooling operations.
- Low-profile ribs for low angle incline/decline conveyors.
- Less contact surface for medium and big sized products.
- Food approved materials

Important Notes

- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Standard rib indent for edge modules 6,35mm (0.25").
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.

HC272 RR

Pitch:	27,2 mm / 1.07 inch
Belt Surface:	Open, Raised Rib Surface
Minimum Width:	50,8 mm / 2.00 inch
Open Area (%):	38% (Biggest Opening 6,4 x 8,0)
Flight:	No
Sidewall:	No
Pin:	Ø4,6mm / 0.181 inch - Headed
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	14,30 mm / 0.563 inch

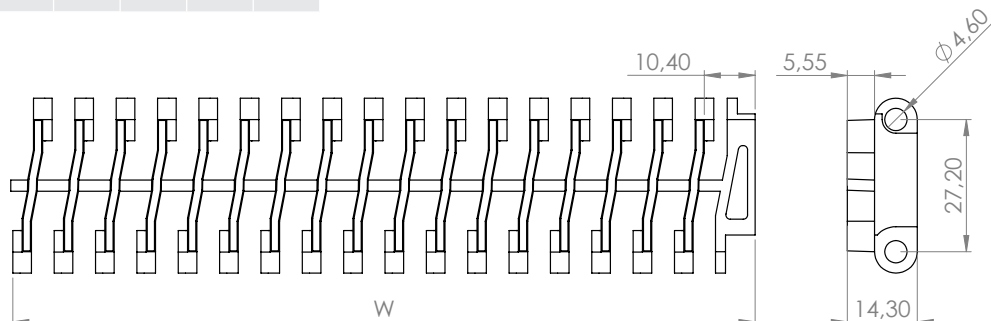


HC272 RR Technical Information

Belt Material		POM	POM	POM	PP	PPH
Pin Material		POM	PA	PP	PP	PPH
Belt Strength	N/m lb/ft	25000 / 1713	25000 / 1713	21750 / 1490	10300 / 707	10300 / 707
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +105 +40 / +220
Belt Weight	kg/m ² lb/sqft ²	7,84 / 1.61	7,84 / 1.61	7,66 / 1.57	5,16 / 1.06	5,16 / 1.06

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	50,8	101,6	152,4	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2
Belt Width inch	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38
Belt Width mm	1016,0	1066,8	1117,6	1168,4	1219,2														
Belt Width inch	40	42	44	46	48														



Product Features and Functional Benefits

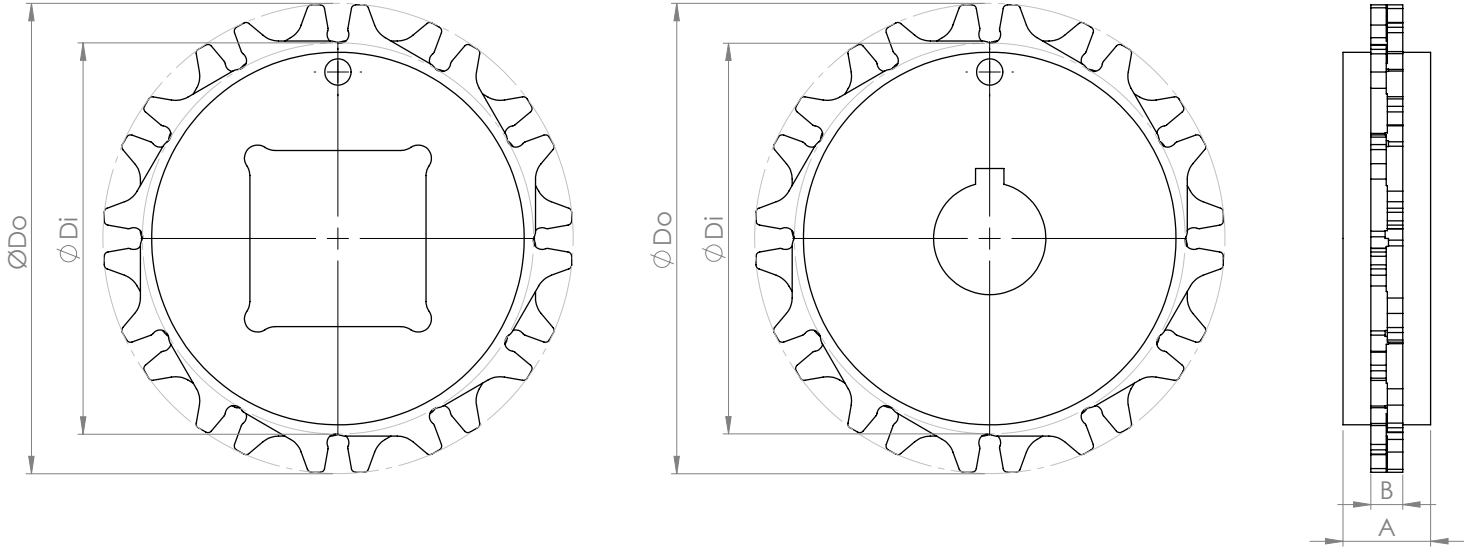
- Provides excellent cooling, drainage and airflow with less friction and contact surface.
- Easy to clean
- Food approved materials

Important Notes

- Standard belt width increments 50,8 mm (2")
- Non-standard belt width increments 8,4 mm (0.33")
- Standard rib indent for edge modules 10,40mm (0.41").
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Please contact with customer service for precise belt measurements.

HC272 Series

Engineering Information



HC272 Series / Machined Sprocket Dimensions

NO. TEETH	Di	Do	A	B	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
	mm/inch	mm/inch	mm/inch	mm/inch	mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z10	70,5 / 2.78	89,7 / 3.53	20 / 0.79	5,60 / 0.22	40	1 to 1.5	25 to 40	1 to 1,5	HC272SQZ10-POM	HC272SRKZ10-POM
Z12	88,5 / 3.48	107,6 / 4.24	20 / 0.79	5,60 / 0.22	40	1.5	25 to 40 50 to 55	1 to 2.18	HC272SQZ12-POM	HC272SRKZ12-POM
Z18	141,1 / 5.56	160 / 6.30	20 / 0.79	5,60 / 0.22	40 to 65	1.5 to 2.5	25 to 40 50 to 55	1 to 2.18	HC272SQZ18-POM	HC272SRKZ18-POM
Z20	158,9 / 6.26	177,8 / 7.00	20 / 0.79	5,60 / 0.22	40 to 65	1.5 to 2.5	25 to 40 50 to 55	1 to 2.18	HC272SQZ20-POM	HC272SRKZ20-POM

*All required sprockets produced by CNC.

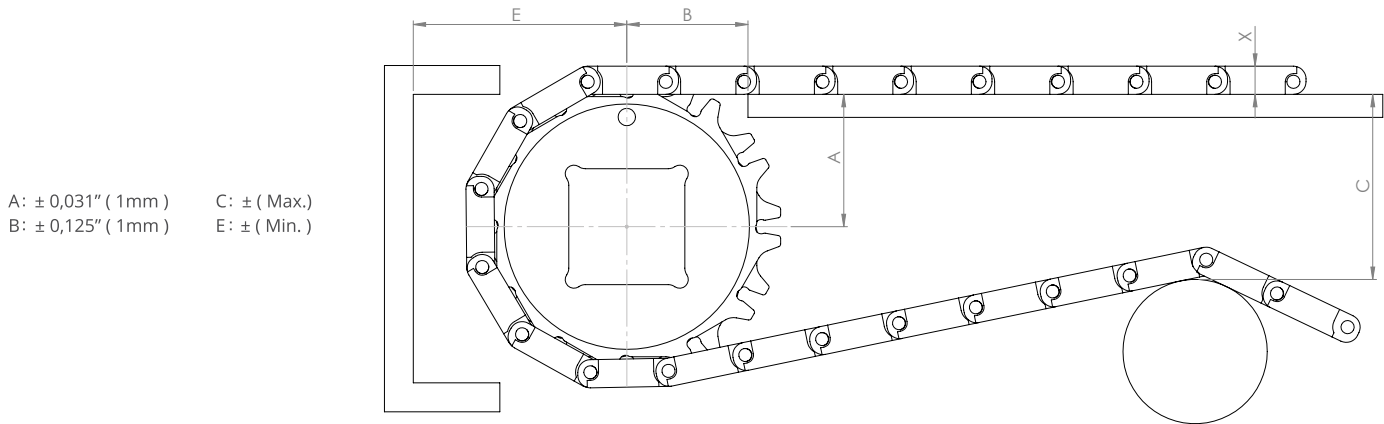
*Other sprockets and hub sizes are manufactured up to request.

*PA (Polyamide) raw material and others are available on request.

*Machined Split Sprockets are available.

HC272 Series

Engineering Information

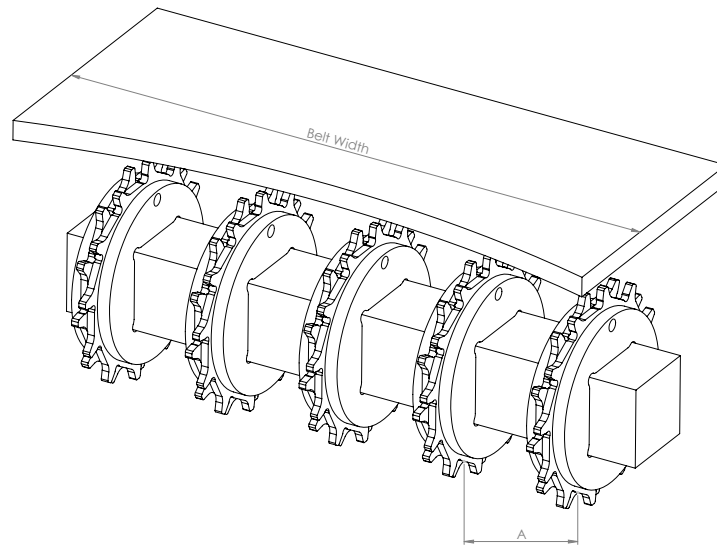


HC272 Series / Conveyor Frame Dimensions

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								
HC272 C, HC272 FG, HC272 MT, HC272 C-PT, HC272 FG-PT												
3.19	81,1	10	1.46 - 1.53	37,0-39,0	1.57 - 1.69	40,0 - 43,0	3.58	91,0	2.01	51,0	0.34 - 0.38	8,75 - 9,75
4.04	102,6	12	1.81 - 1.89	46,0-48,0	1.73 - 1.81	44,0 - 46,0	4.25	108,0	2.52	64,0	0.34 - 0.38	8,75 - 9,75
6.12	155,4	18	2.85 - 2.91	72,3-74,0	2.10 - 2.20	53,0 - 56,0	6.10	155,0	3.46	88,0	0.34 - 0.38	8,75 - 9,75
6.80	172,7	20	3.20 - 3.30	81,3-83,5	2.16 - 2.32	55,0 - 59,0	6.73	171,0	3.94	100,0	0.34 - 0.38	8,75 - 9,75
HC272 OG , HC272 RR												
3.19	81,1	10	1.46 - 1.53	37,0-39,0	1.57 - 1.69	40,0 - 43,0	3.58	91,0	2.28	58,0	0.51 - 0.56	13,0 - 14,3
4.04	102,6	12	1.81 - 1.89	46,0-48,0	1.73 - 1.81	44,0 - 46,0	4.25	108,0	2.76	70,0	0.51 - 0.56	13,0 - 14,3
6.12	155,4	18	2.85 - 2.91	72,3-74,0	2.10 - 2.20	53,0 - 56,0	6.10	155,0	3.54	90,0	0.51 - 0.56	13,0 - 14,3
6.80	172,7	20	3.20 - 3.30	81,3-83,5	2.16 - 2.32	55,0 - 59,0	6.73	171,0	4.13	105,0	0.51 - 0.56	13,0 - 14,3
HC272 GT												
3.19	81,1	10	1.46 - 1.53	37,0-39,0	1.57 - 1.69	40,0 - 43,0	3.58	91,0	2.36	60,0	0.58	14,75
4.04	102,6	12	1.81 - 1.89	46,0-48,0	1.73 - 1.81	44,0 - 46,0	4.25	108,0	2.83	72,0	0.58	14,75
6.12	155,4	18	2.85 - 2.91	72,3-74,0	2.10 - 2.20	53,0 - 56,0	6.10	155,0	3.62	92,0	0.58	14,75
6.80	172,7	20	3.20 - 3.30	81,3-83,5	2.16 - 2.32	55,0 - 59,0	6.73	171,0	4.17	106,0	0.58	14,75

HC272 Series

Engineering Information



HC272 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
50,8	2	1	2	2	-	-
101,6	4	1	2	2	-	-
152,4	6	2	2	2	33,86 / 1.33	101,6 / 4.0
203,2	8	2	3	2	33,86 / 1.33	101,6 / 4.0
254,0	10	3	3	2	33,86 / 1.33	101,6 / 4.0
304,8	12	3	3	2	33,86 / 1.33	101,6 / 4.0
355,6	14	5	4	3	33,86 / 1.33	101,6 / 4.0
406,4	16	5	4	3	33,86 / 1.33	101,6 / 4.0
457,2	18	5	4	3	33,86 / 1.33	101,6 / 4.0
508,0	20	5	5	3	33,86 / 1.33	101,6 / 4.0
558,8	22	5	5	3	33,86 / 1.33	101,6 / 4.0
609,6	24	7	5	3	33,86 / 1.33	101,6 / 4.0
660,4	26	7	5	3	33,86 / 1.33	101,6 / 4.0
711,2	28	7	5	3	33,86 / 1.33	101,6 / 4.0
762,0	30	9	6	4	33,86 / 1.33	101,6 / 4.0
812,8	32	9	7	4	33,86 / 1.33	101,6 / 4.0
863,6	34	9	7	4	33,86 / 1.33	101,6 / 4.0
914,4	36	9	7	4	33,86 / 1.33	101,6 / 4.0
965,2	38	9	7	4	33,86 / 1.33	101,6 / 4.0
1016,0	40	9	7	4	33,86 / 1.33	101,6 / 4.0
1066,8	42	11	8	5	33,86 / 1.33	101,6 / 4.0
1117,6	44	11	8	5	33,86 / 1.33	101,6 / 4.0
1168,4	46	11	8	5	33,86 / 1.33	101,6 / 4.0
1219,2	48	13	9	5	33,86 / 1.33	101,6 / 4.0
1371,6	54	15	10	6	33,86 / 1.33	101,6 / 4.0
1828,8	72	19	13	7	33,86 / 1.33	101,6 / 4.0
2133,6	84	21	15	8	33,86 / 1.33	101,6 / 4.0
2438,4	96	25	17	9	33,86 / 1.33	101,6 / 4.0
3048,0	120	31	21	11	33,86 / 1.33	101,6 / 4.0
3657,6	144	37	25	13	33,86 / 1.33	101,6 / 4.0

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belt widths, central distance of sprockets should be minimum 152,4mm (6").

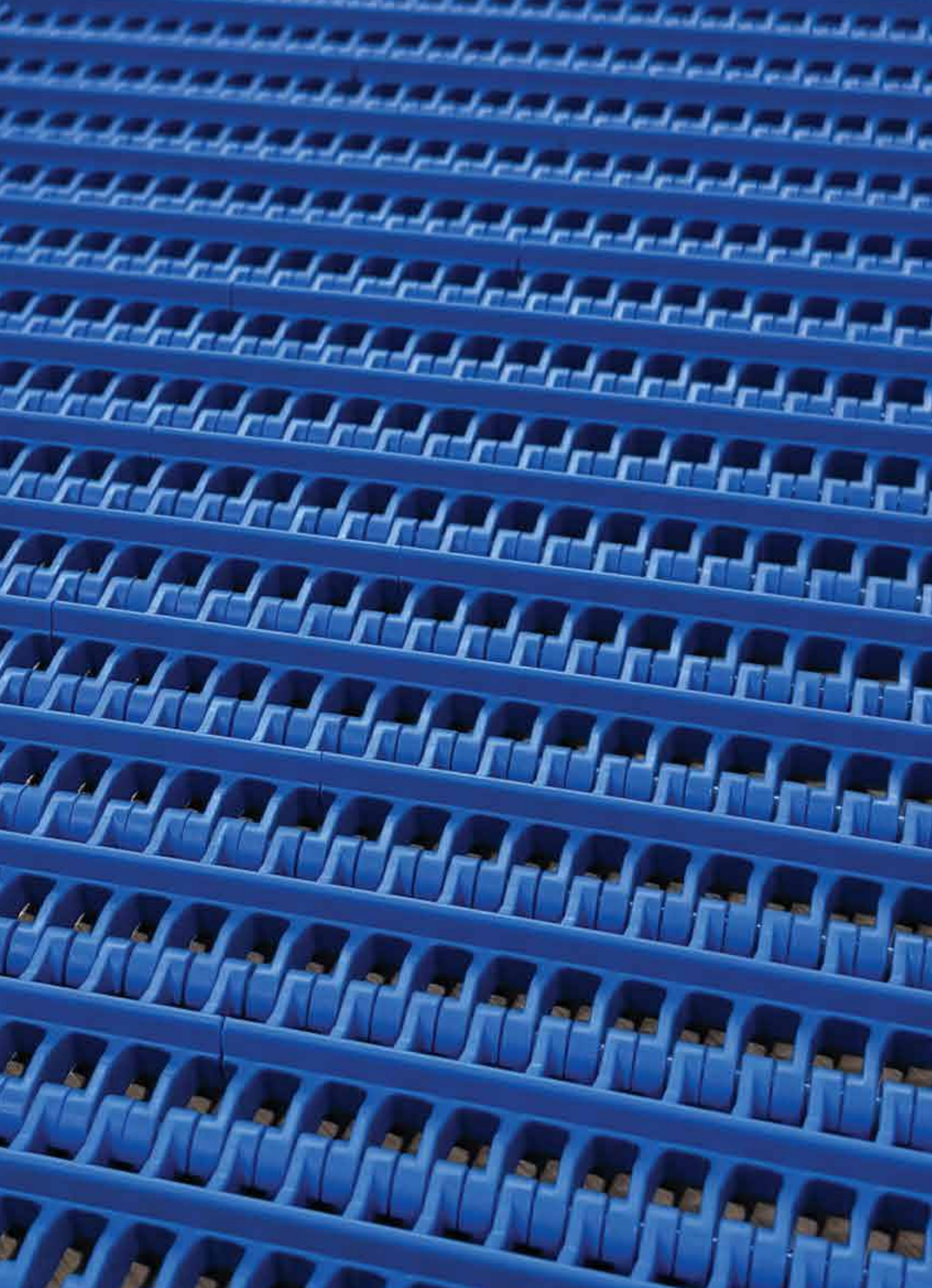
*For wider belts, central distance of carryway wearstrips 228,6mm (9"), returnway wearstrips 304,8mm (12").

HC272 C - PT & FG - PT Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
82,5	3.25	1	2	2	-	-
85,0	3.35	1	2	2	-	-
114,0	4.5	3	2	2	33,86 / 1.33	101,6 / 4.0
190,0	7.5	5	4	4	33,86 / 1.33	101,6 / 4.0

Note:

*The minimum allowed number of sprocket teeth is Z10 (89 mm / 3.5 in pitch diameter).



EC381

Modular Belt Series

EC381C

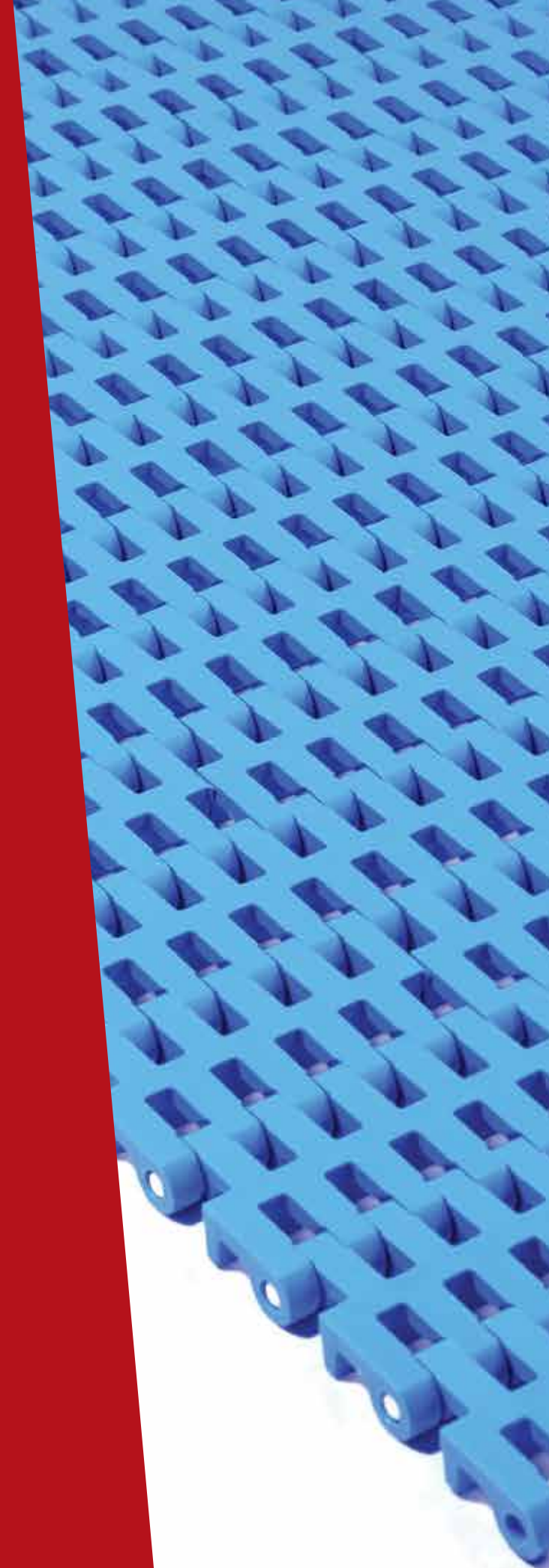
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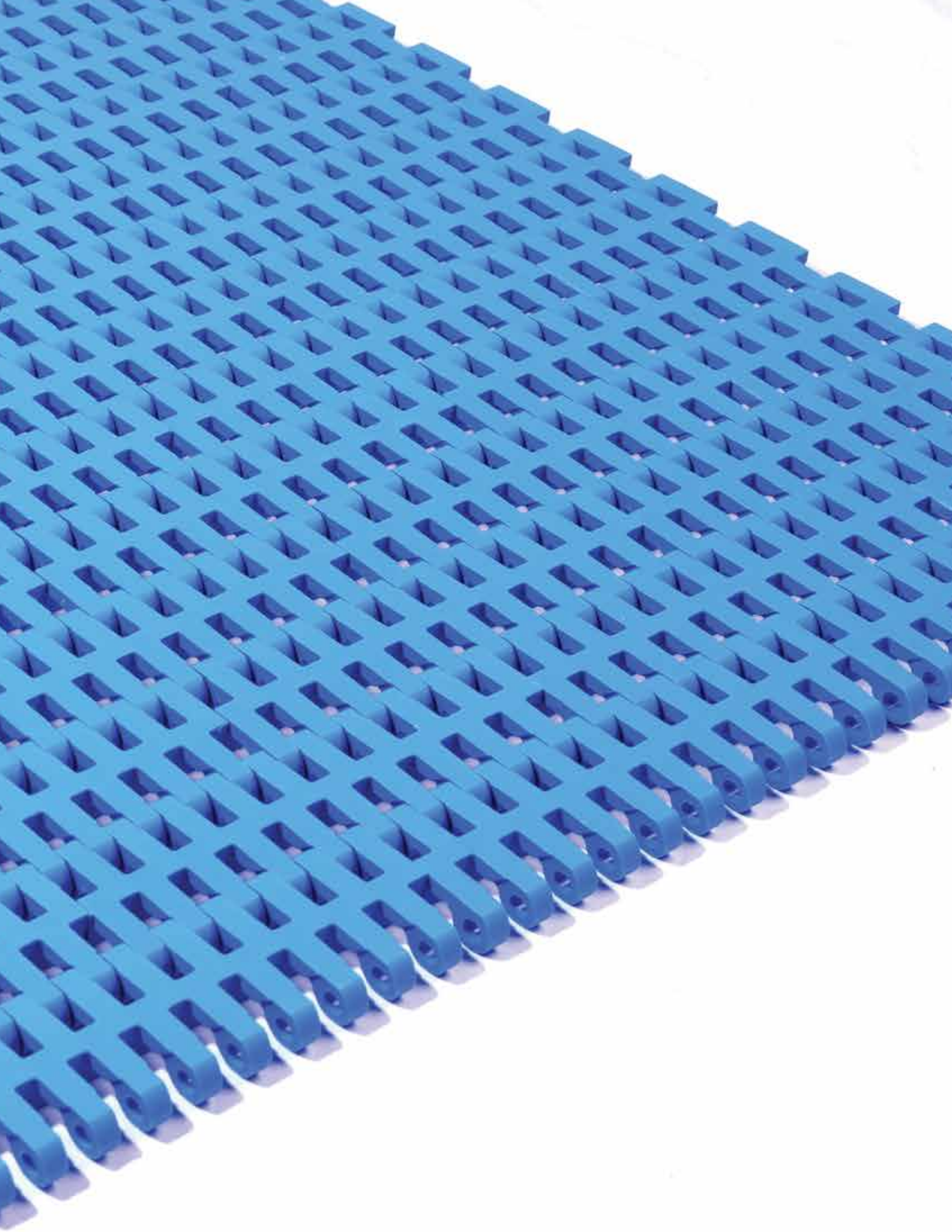
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EC381NT

Sprockets & Accessories

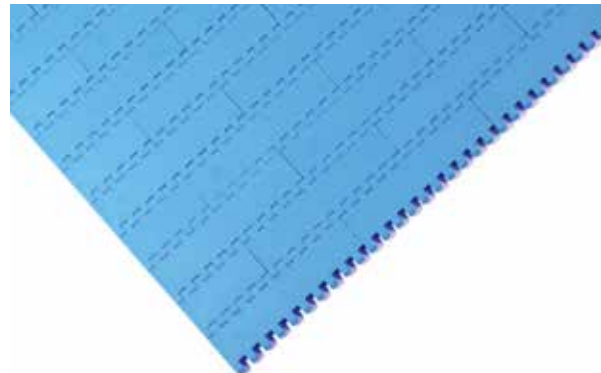
Engineering Information





EC381 C

Pitch:	38,1 mm / 1.5 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / 6.0 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5.7 mm / 0.224 inch - End Locks
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	12.90 mm / 0.507 inch

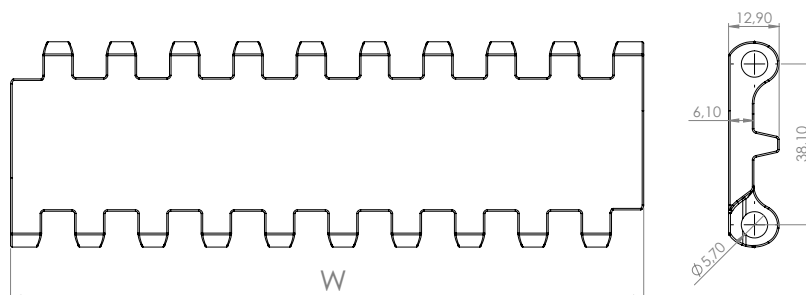


EC381 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	26970 - 1848	26970 - 1848	18000 - 1233	15900 - 1089	15900 - 1089	15200 - 1042	15200 - 1042
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	9,90 / 2.03	10.14 / 2.08	9,80 / 2.01	6,49 / 1.33	6,82 / 1.40	7,22 / 1.48	6,93 / 1.42

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	90	3.5	100	6	150	6	250	6

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00



Product Features and Functional Benefits

- Flat top surface.
- Reduces bacteria growth.
- Unique sprocket engagement.
- Unique sprocket engagement - higher product load and longer conveyors.

Important Notes

- Standard belt width increments 76,2 mm (3 inch).
- Non-Standard belt width increments 15,2 mm (0.6 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.

EC381 FG

Pitch:	38,1 mm / 1.5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6.0 inch
Open Area (%):	30% (Biggest opening 6.5 x 11 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5.7 mm / 0.224 inch - End Locks
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	12.90 mm / 0.507 inch

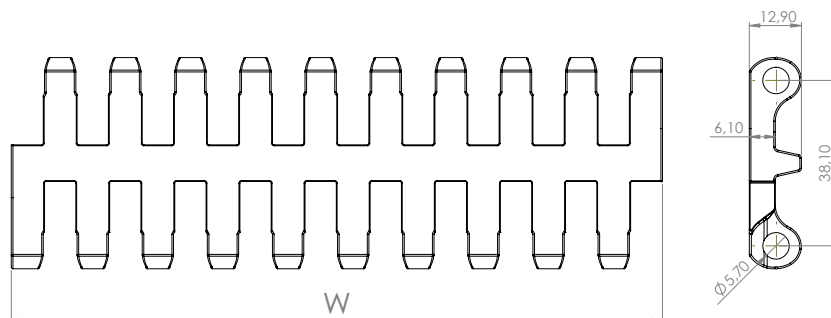


EC381 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	27620 - 1893	27620 - 1893	19000 - 1302	16570 - 1135	16570 - 1135	15920 - 1042	15920 - 1042
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	+5 / +93 +40 / +20	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	8,17 - 1.67	8,35 - 1.71	8,02 - 1.6	5,31 - 1.09	5,63 - 1.15	5,95 - 1.22	5,67 - 1.16

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	90	3.5	100	6	150	6	250	6

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00



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.
- Reduces bacteria growth.
- Unique sprocket engagement.

Important Notes

- Standard belt width increments 76,2 mm (3 inch).
- Non-Standard belt width increments 15,2 mm (0.6 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.



MODUTECH®
Movement Technologies

EC381 PR22%

Pitch:	38,1 mm / 1.5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6.0 inch
Open Area (%):	22% (Biggest opening 2.5 x 8 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5.7 mm / 0.224 inch - End Locks
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	12.90 mm / 0.507 inch

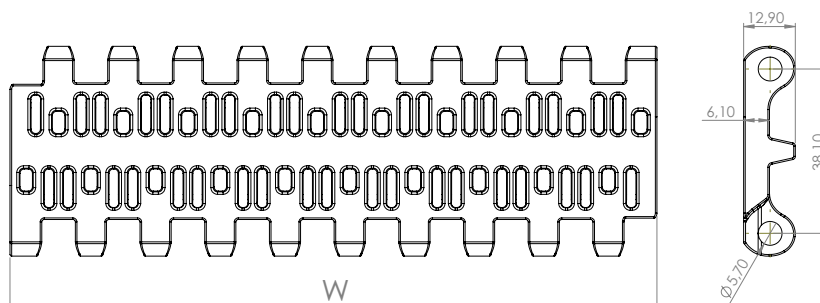


EC381 PR22% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	16900 - 1158	16900 - 1158	15950 - 1093	15270 - 1046	15270 - 1046	13970 - 957	13970 - 957
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	8,59 - 1.76	8,76 - 1.79	8,44 - 1.73	5,61 - 1.15	5,93 - 1.22	6,27 - 1.28	5,99 - 1,23

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	90	3.5	100	6	150	6	250	6

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00



Product Features and Functional Benefits

- Belt provides optimal open area for drainage and airflow.
- 22% open area for cooling and washing operations.
- Reduces bacteria growth.
- Unique sprocket engagement.

Important Notes

- Standard belt width increments 76,2 mm (3 inch).
- Non-Standard belt width increments 15,2 mm (0.6 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.

EC381 NT

Pitch:	38,1 mm / 1.5 inch
Belt Surface:	Close, Nub Top Surface
Minimum Width:	152,4 mm / 6.0 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 5.7 mm / 0.224 inch - End Locks
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	14.40 mm / 0.567 inch

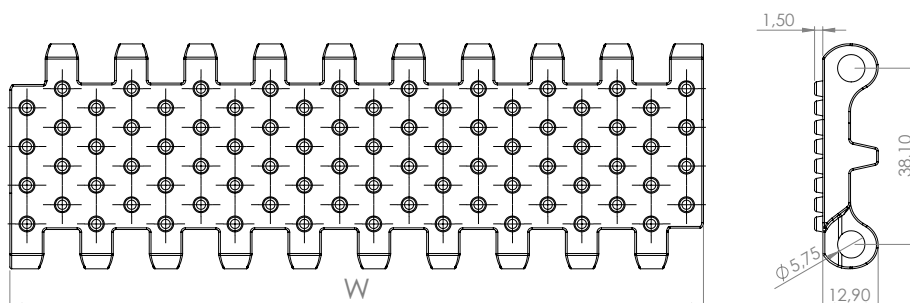


EC381 NT Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	26970 - 1848	26970 - 1848	18000 - 1233	15900 - 1089	15900 - 1089	15200 - 1042	15200 - 1042
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	9,90 / 2.03	10.14 / 2.08	9,80 / 2.01	6,49 / 1.33	6,82 / 1.40	7,22 / 1.48	6,93 / 1.42

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	90	3.5	150	6	150	6	250	6

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00



Product Features and Functional Benefits

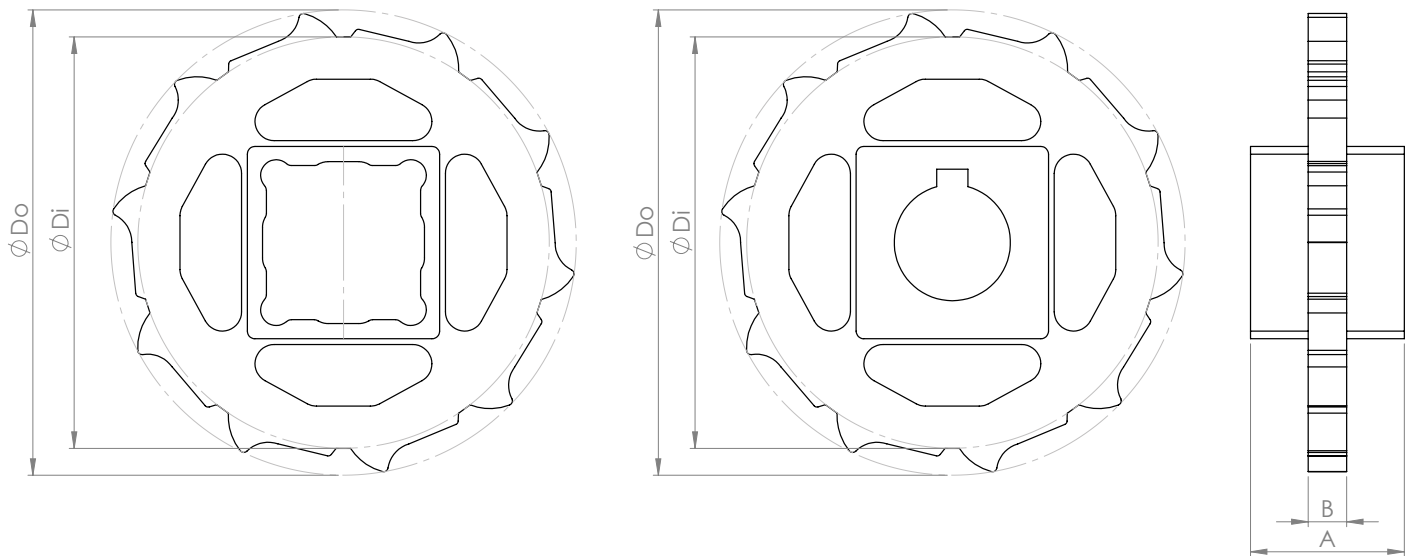
- Easy to clean, closed nub top surface.
- Reduced contact surface for sticky operations.
- Reduces bacteria growth.
- Self indent modules available.
- Unique sprocket engagement.

Important Notes

- Standard belt width increments 76,2 mm (3 inch).
- Non-Standard belt width increments 15,2 mm (0.6 inch).
- Standard Nub indent: 42,0 mm (1.65 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.

EC381 Series

Sprockets and Technical Specifications



EC381 Series / Standard Molded Sprockets Dimensions

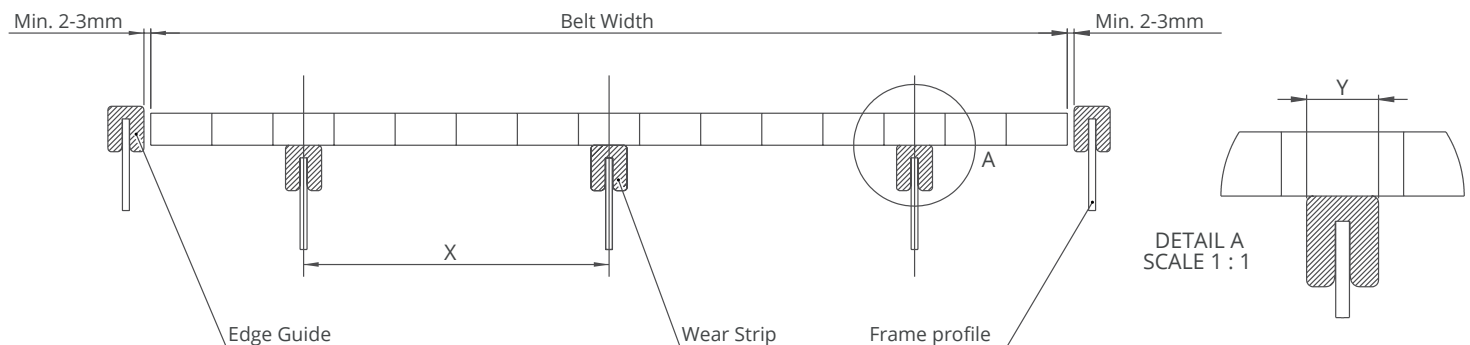
NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	80 / 3.15	95 / 3.74	40 / 1.57	10 / 0.39	40	-	25 - 30	1 - 1.25	EC381SQZ8*PA	EC381SRZ8*PA
Z10	104,5 / 4.11	123 / 4.84	40 / 1.57	10 / 0.39	40	1.5	25 - 30	1 - 1.25	EC381SQZ10*PA	EC381SRZ10*PA
Z12	130 / 5.12	146,5 / 5.77	40 / 1.57	10 / 0.39	40	-	25 - 30	1 - 1.25	EC381SQZ12*PA	EC381SRZ12*PA

*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 available for each size.

EC381 Series / Slider Support System For Straight Running Belts



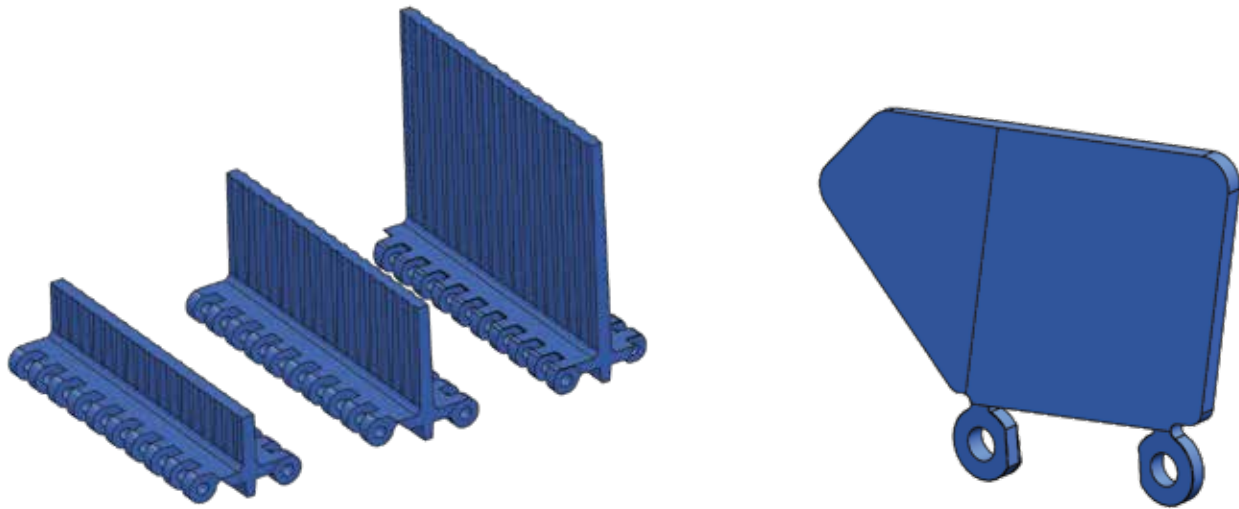
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

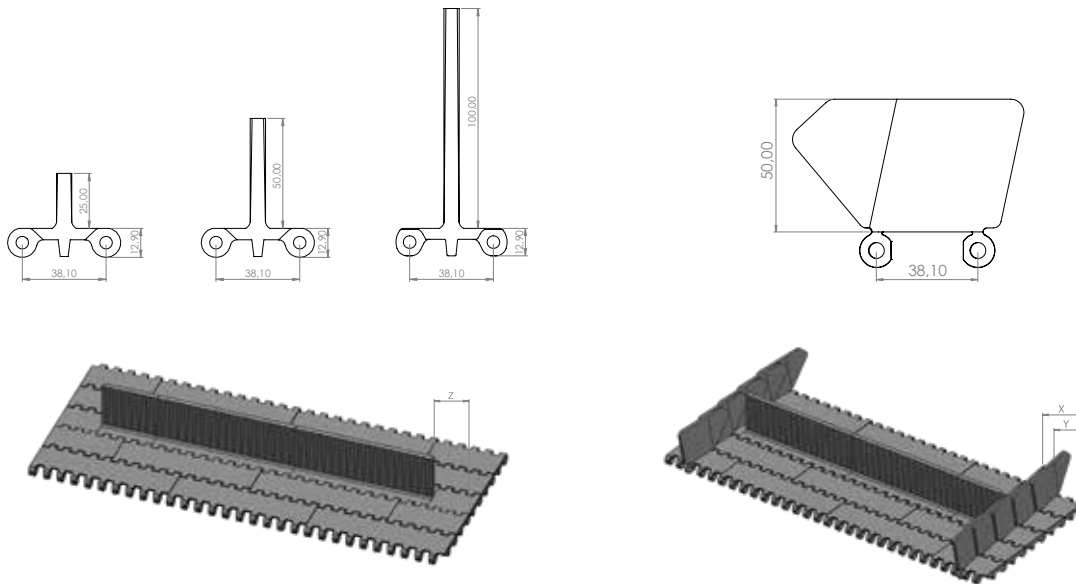
EC381 Series

Accessories and Technical Specifications



EC381 Series / Flight & Sidewall Dimensions

EC381 Series / Flight & Sidewall				
Flight Product Code	Flight Height (mm/inch)	Flight Width (mm/inch)	Sidewall Product Code	Sidewall Height (mm/inch)
EC381T25	25 / 1	152,4 / 6	EC381SW50	50 / 1.97
EC381T50	50 / 2	152,4 / 6	-	-
EC381T100	100 / 4	152,4 / 6	-	-



EC381 Series / Sidewall Technical Specifications

Possible Sidewall and Flights Indents	Z		X		Y	
	mm	inch	mm	inch	mm	inch
Standard, no module cutting	30,48	1.20	22,80	0.90	21,14	0.83
Standard, no module cutting	45,72	1.80	30,40	1.20	28,76	1.13
Standard, module cutting	60,96	2.40	38,00	1.50	36,40	1.43
Standard, module cutting	76,20	3.00	45,64	1.80	44,00	1.73
Standard, no module cutting	101,60	4.00	53,26	2.10	51,62	2.03

* Gap between flight and sidewall minimum 2-3 mm

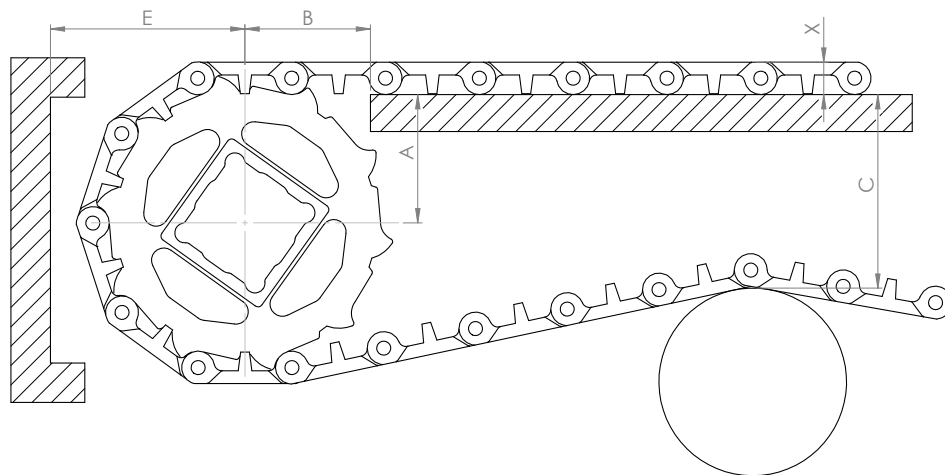
** Sidewall indent dimensions (Y) are specified based on a 50 mm sidewall height.

For other heights, required indent clearances may vary. Please contact Modutech Technical Team for specific dimensions.

EC381 Series

Engineering Information

A: $\pm 0,031"$ (1mm) C: $\pm$ (Max.)
 B: $\pm 0,125"$ (1mm) B: $\pm$ (Min.)

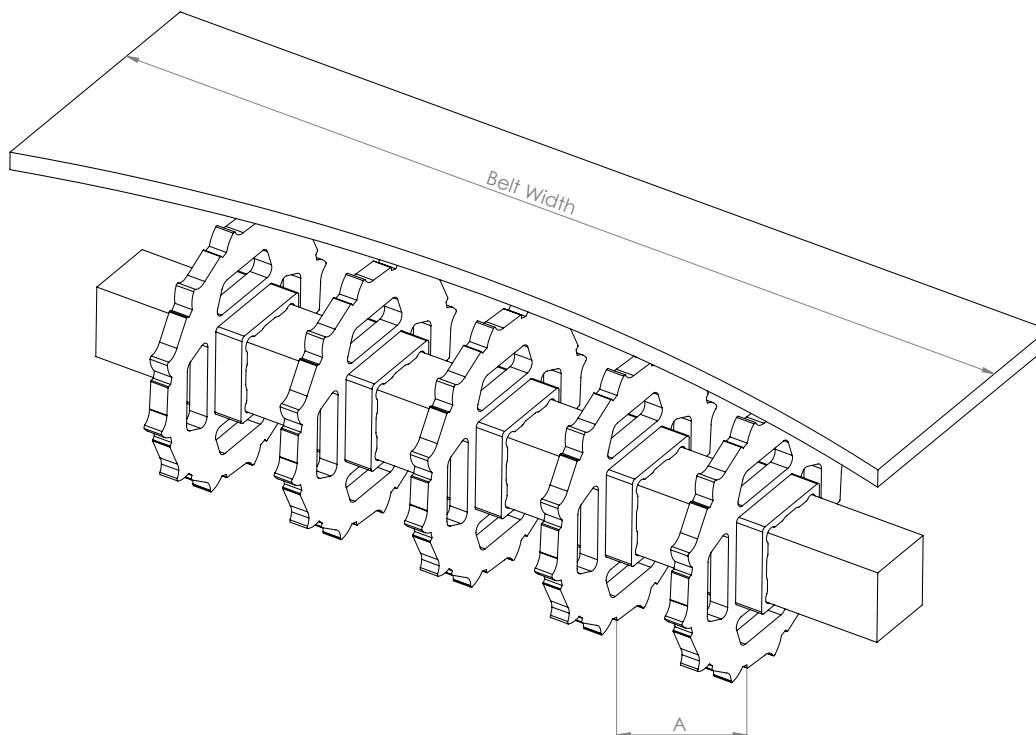


EC381 Series / Conveyor Frame Dimensions

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								
EC381 C, EC381 FG, EC381 PR22												
5.26	133,62	8	1.55	39,3	1.84	46,7	2.09	53,1	2.69	68,3	0.51	12,9
6.59	167,45	10	2.05	52,0	2.01	51,0	3.09	78,5	3.11	79,0	0.51	12,9
7.64	194,00	12	2.54	64,4	2.20	56,0	3.87	98,2	3.70	94	0.51	12,9
EC381 NT												
5.26	133,62	8	1.55	39,3	1.84	46,7	2.09	53,1	2.75	69,8	0.57	14,4
6.59	167,45	10	2.05	52,0	2.01	51,0	3.09	78,5	3.17	80,5	0.57	14,4
7.64	194,00	12	2.54	64,4	2.20	56,0	3.87	98,2	3.76	95,5	0.57	14,4

EC381 Series

Engineering Information



EC381 Series / Sprockets Arrangement

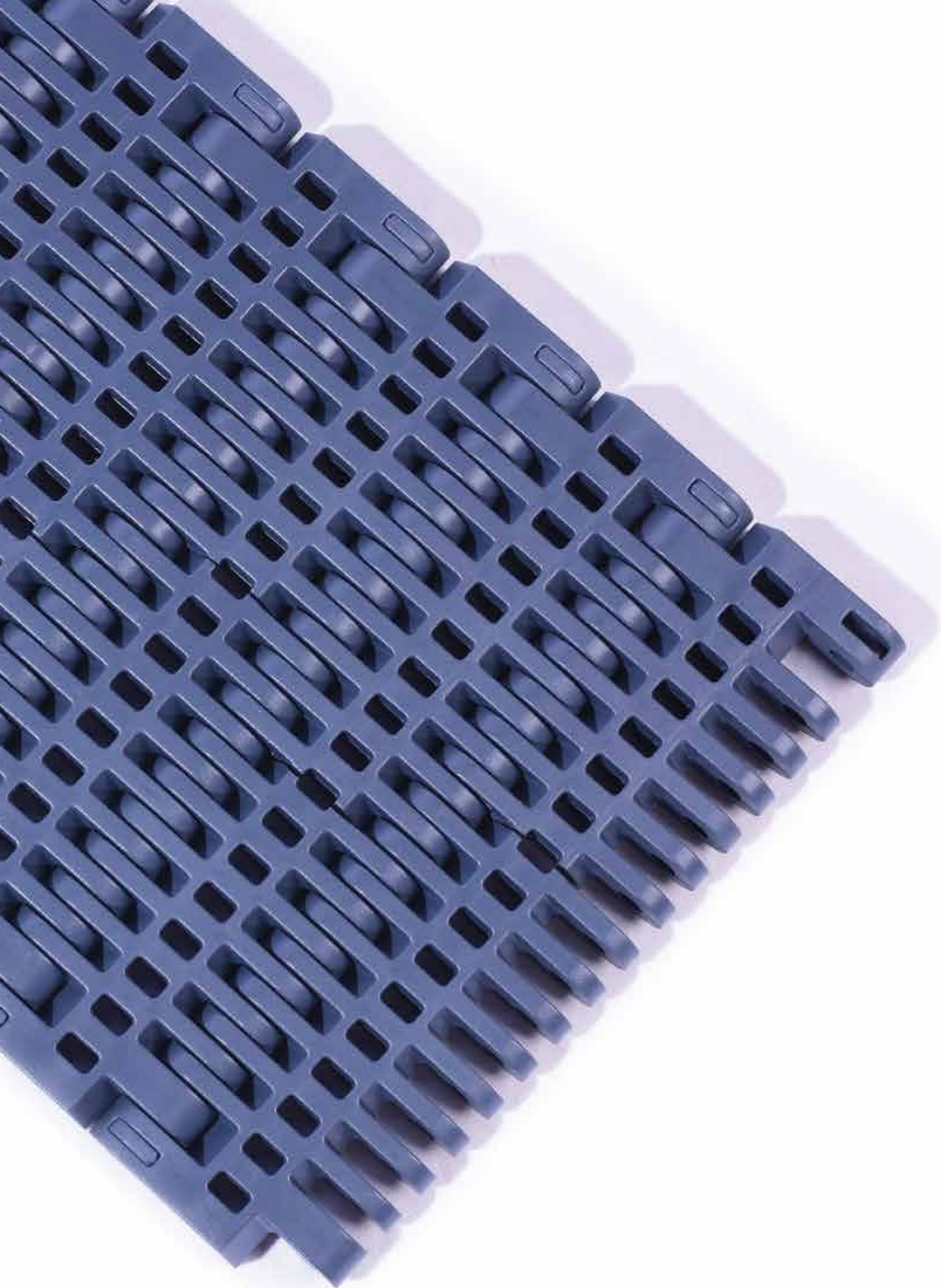
Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
152,4	6	2	2	50 / 2.0	152 / 6.0
203,2	8	2	2	50 / 2.0	152 / 6.0
254,0	10	2	3	50 / 2.0	152 / 6.0
304,8	12	3	3	50 / 2.0	152 / 6.0
355,6	14	3	3	50 / 2.0	152 / 6.0
406,4	16	3	3	50 / 2.0	152 / 6.0
457,2	18	3	3	50 / 2.0	152 / 6.0
508,0	20	5	4	50 / 2.0	152 / 6.0
609,6	24	5	4	50 / 2.0	152 / 6.0
762,0	30	5	4	50 / 2.0	152 / 6.0
812,8	32	7	5	50 / 2.0	152 / 6.0
914,4	36	7	5	50 / 2.0	152 / 6.0
1066,8	42	7	5	50 / 2.0	152 / 6.0
1219,2	48	9	7	50 / 2.0	152 / 6.0
1371,6	54	9	7	50 / 2.0	152 / 6.0

Note: Number of sprockets depends on the belt load.

MD400

Modular Belt Series

*MD400 FG
Sprockets
Engineering Information*





MD400 FG

Modular Belt Series

MD400 FG

Pitch:	40 mm / 1.57 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	60 mm / 2.36 inch
Open Area (%):	14% (Biggest opening 4,4 x 8mm)
Flight:	No
Sidewall:	No
Pin:	Ø6mm / 0.236 inch with Special Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.63 inch

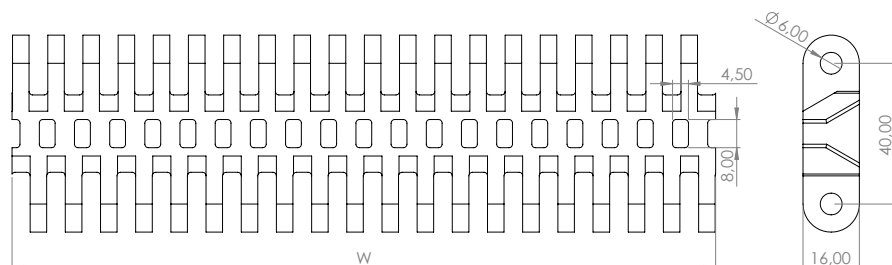


MD400 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		POM	PA	PP	PP	POM	POM	PE
Belt Strength	N/m lb/ft	70000 / 4796	70000 / 4796	47500 / 3255	36000 / 2467	36000 / 2467	26500 / 1815	26500 / 1815
Temperature	°C °F	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	16,76 / 3.43	16,58 / 3.39	16,42 / 3.36	11,59 / 2.37	11,96 / 2.45	11,76 / 2.41	11,46 / 2.35

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter of gravity take-up and center drive support rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	-	-

Belt Width mm	60,0	100,0	150,0	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	1050,0	1350,0	1650,0	1900,0	2250,0	2500,0	2850,0
Belt Width inch	2.36	3.94	5.9	7.87	9.84	11.8	13.78	15.75	17.72	19.7	21.6	23.6	41.3	53.1	64.9	74.8	88.5	98.4	112.2
Belt Width mm	3150,0	3450,0	3750,0	4000,0															
Belt Width inch	124.0	135.8	147.6	157.5															



Product Features and Functional Benefits

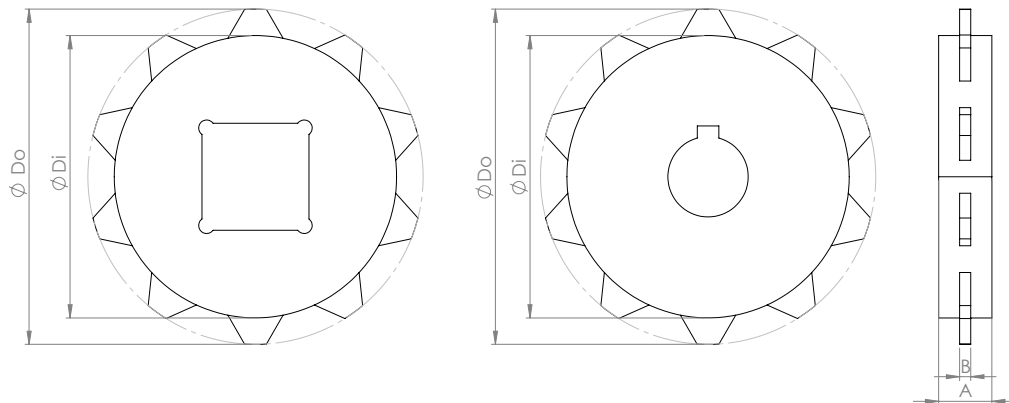
- Strong hinge design provides higher product load capacity and longer conveyors.
- Flush grid surface to optimize performance in cooling and draining applications.
- Unique sprocket engagement
- Food approved materials

Important Notes

- Standard belt increments 50 mm.
- Non-Standard belt increments 10 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.

MD400 Series

Sprockets and Technical Specifications



MD400 Series / Machined Sprocket Dimensions

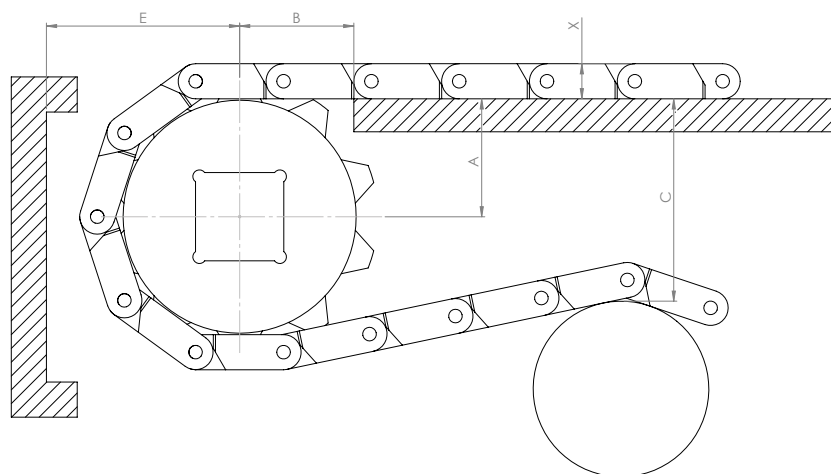
NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	79,5	100,5	20	4,2	40	1.5	25	1	MD400SQZ8*POM	MD400SRZ8*POM
Z10	106	126	20	4,2	40 to 60	1.5	25 to 30	1 to 1.25	MD400SQZ10*POM	MD400SRZ10*POM
Z13	145,3	165,3	20	4,2	40 to 60	1.5	25 to 30	1 to 1.25	MD400SQZ13*POM	MD400SRZ13*POM
Z20	235,5	255,5	20	4,2	40 to 90	1.5 to 2.5	30 to 60	1.5 to 2.5	MD400SQZ20*POM	MD400SRZ20*POM

*All required sprockets machined by CNC.

*Other sprockets and hub sizes are manufactured on request.

*PA (Polyamide) sprockets are available on request.

*Machined Split Sprockets are available on request.

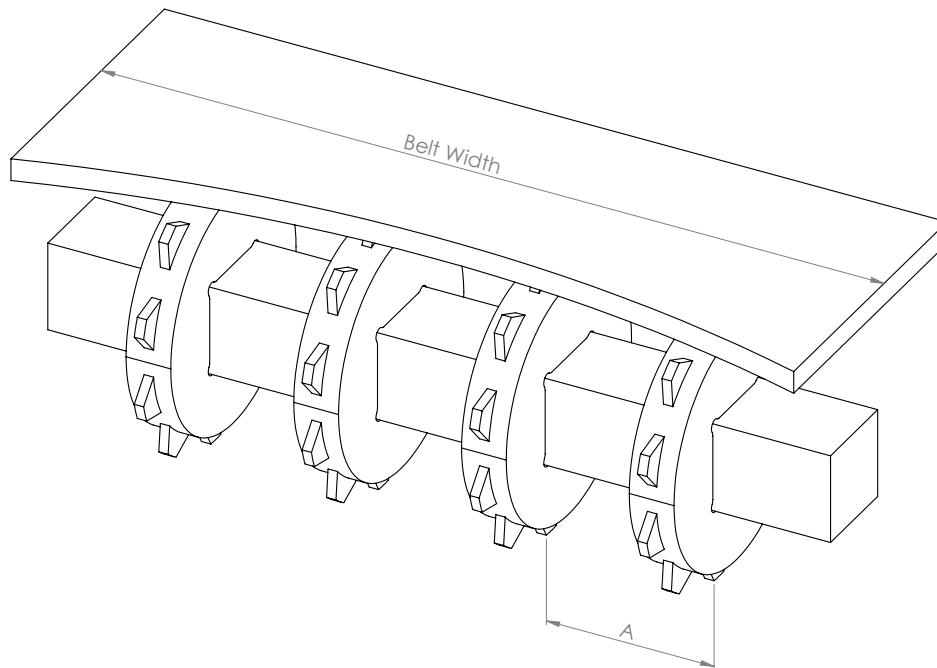


MD400 Series / Conveyor Frame Dimensions

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								
MD400												
-	104,4	8	-	43,0	-	42,0	-	105,0	-	77,6	-	16
-	129,3	10	-	56,0	-	52,0	-	130,0	-	90,0	-	16
-	167	13	-	75,0	-	67,0	-	205,0	-	108,8	-	16
-	255,6	20	-	120,0	-	87,0	-	255,0	-	153,1	-	16

MD400 Series

Engineering Information



MD400 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch	Minimum	Carryway	Returnway	Min.	Max.
60	2.36	1	2	2	-	-
100	3.94	1	2	2	-	-
150	5.91	3	2	2	50 / 1.97	150 / 5.90
200	7.87	3	2	2	50 / 1.97	150 / 5.90
250	9.84	3	2	2	50 / 1.97	150 / 5.90
300	11.81	3	2	2	50 / 1.97	150 / 5.90
350	13.78	3	2	2	50 / 1.97	150 / 5.90
400	15.75	3	2	2	50 / 1.97	150 / 5.90
450	17.72	5	3	2	50 / 1.97	150 / 5.90
500	19.69	5	3	2	50 / 1.97	150 / 5.90
550	21.65	5	3	2	50 / 1.97	150 / 5.90
600	23.62	5	3	2	50 / 1.97	150 / 5.90
650	25.59	5	3	2	50 / 1.97	150 / 5.90
750	29.53	7	5	3	50 / 1.97	150 / 5.90
1050	41.34	9	6	4	50 / 1.97	150 / 5.90
1350	53.15	11	7	5	50 / 1.97	150 / 5.90
1650	64.96	13	9	6	50 / 1.97	150 / 5.90
1950	76.77	15	10	7	50 / 1.97	150 / 5.90
2250	88.58	17	11	8	50 / 1.97	150 / 5.90
2550	100.39	19	12	9	50 / 1.97	150 / 5.90
2850	112.20	21	14	10	50 / 1.97	150 / 5.90
3150	124.02	23	15	11	50 / 1.97	150 / 5.90
3450	135.83	25	16	12	50 / 1.97	150 / 5.90
3750	147.64	27	18	13	50 / 1.97	150 / 5.90

Note:

Number of sprockets depends on the belt load.

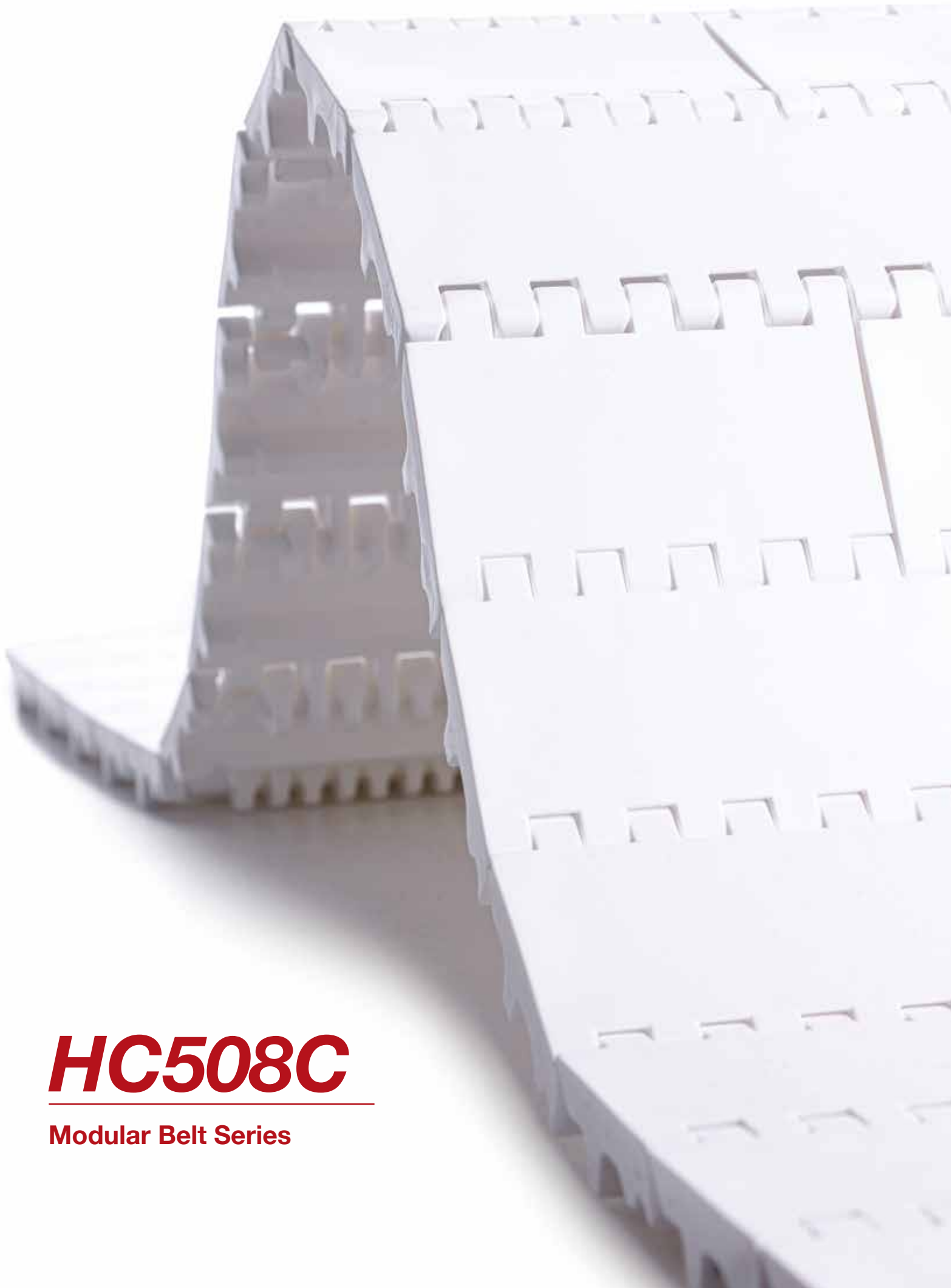
HC508

Modular Belt Series

HC508 C
HC508 C-MTW
HC508 PR22
HC508 NT
HC508 MR
Sprockets & Accessories
Engineering Information





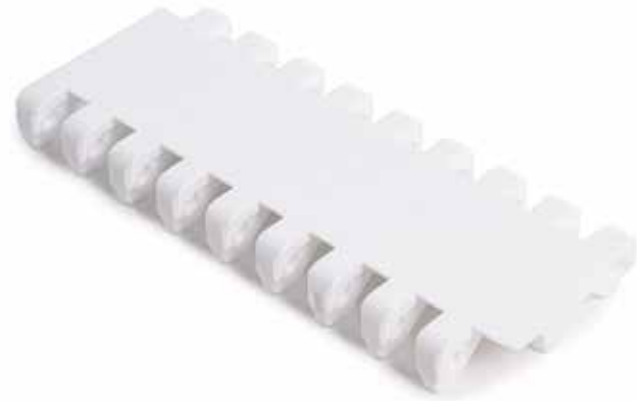


HC508C

Modular Belt Series

HC508 C

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 6 mm / 0.236 inch
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.63 inch

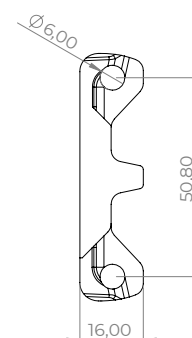
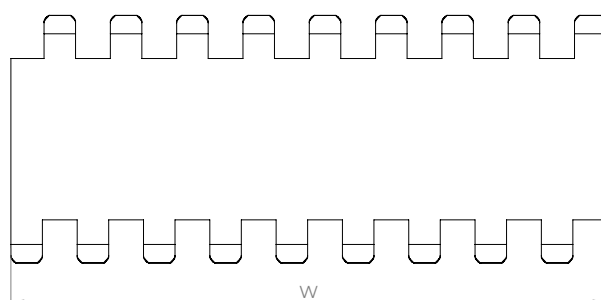


HC508 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		POM	PA	PE	PP	POM	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	10000 - 685	10000 - 685
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m ² lb/sqft ²	13.3 / 2.72	13.3 / 2.72	13.3 / 2.72	8.01 / 1.64	8.2 / 1.68	9.88 / 2.02	9,2 / 1.88

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8	1524,0
Belt Width inch	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Belt Width mm	1600,2																		
Belt Width inch	63																		

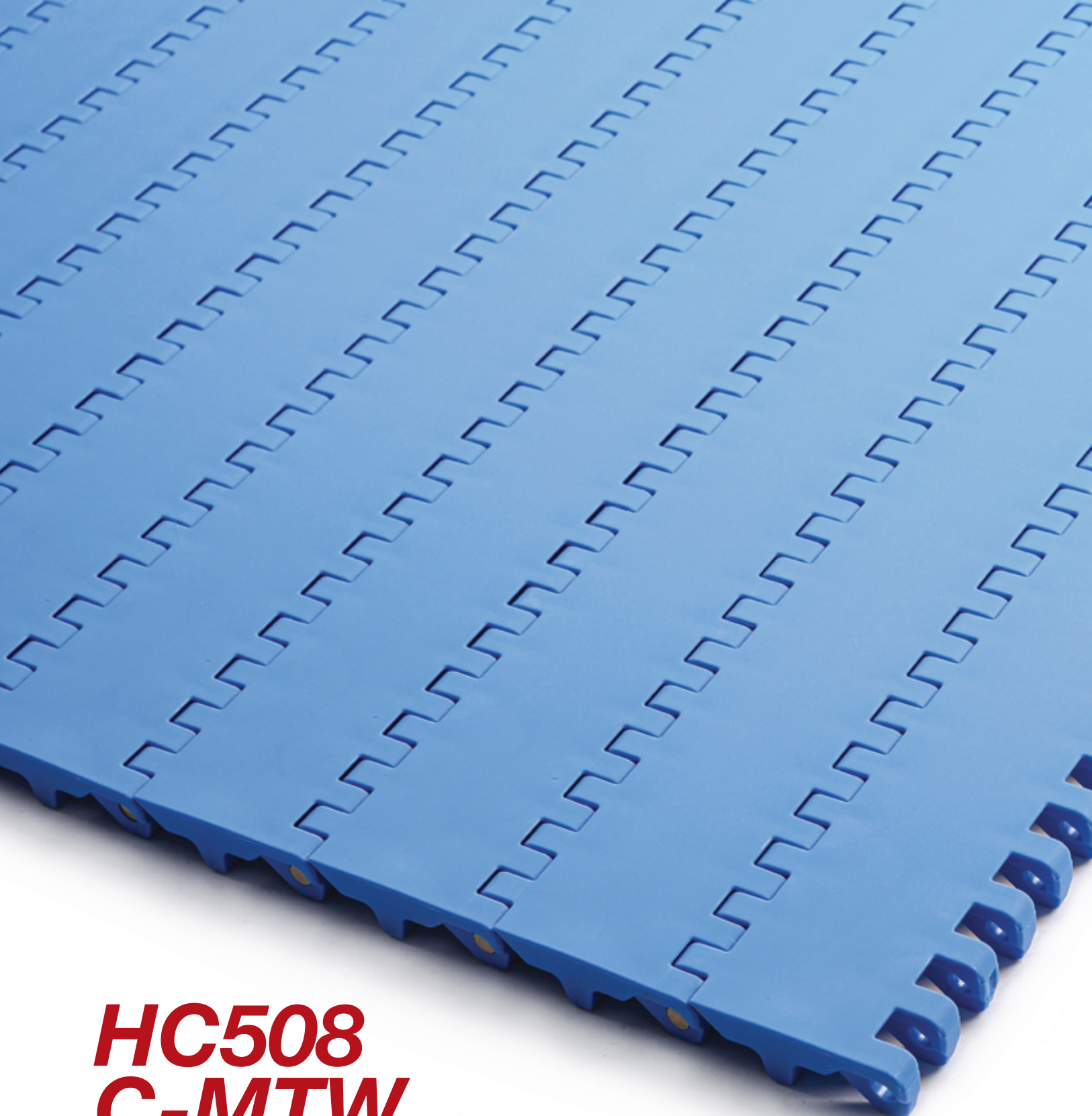


Product Features and Functional Benefits

- Hygienic & Food-Safe open hinge design
- Closed flat top surface.
- Easy to clean.
- Unique sprocket engagement
- Food approved materials

Important Notes

- Standard belt increments 50,8 mm.
- Non-standard belt increments 16,9 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.



HC508 C-MTW

Mold to Width

Modular Belt Series

- **Meat (Beef and Pork) Applications**

Slaughtering - Evisceration, Cutting Lines, Debonning Lines,
Bone Takeaway, Dressing Lines, Trim Lines

- **Poultry Applications**

Live Birds, Slaughtering - Evisceration, Skinning, Cut - Up,
Chiller Discharge, Bird Accumulation, Freezing Lines, Elevator

- **Sea Food Applications**

Trim Lines, Control Tables, Glazing, Elevator



MODUTECH[®]
Movement Technologies

HC508 C-MTW

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	406,4 mm / 16 inch
Open Area (%):	0%
Flight:	Yes (Bricklay flight modules are available)
Sidewall:	Yes
Pin:	Ø6mm / 0.236 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.63 inch



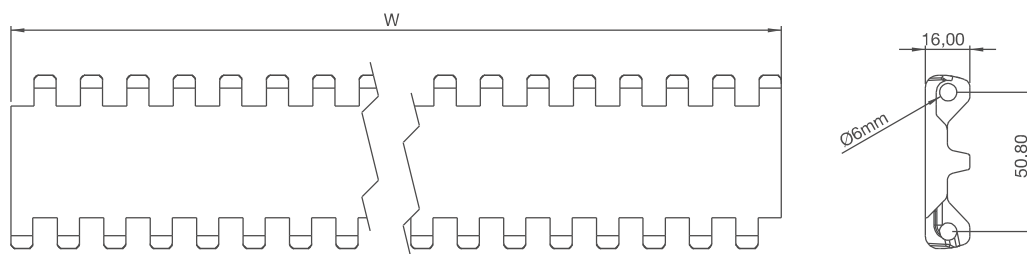
- Available single modules: 16", 20", 24"

HC508 C-MTW Technical Information

Belt Material		POM	POM	PP	PP	PE	ICR	CR	IMPR
Pin Material		PA	POM	PP	POM	POM	PBT	PBT	PBT
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	10000 - 685	15000 - 1030	15000 - 1030	18000 - 1233
Temperature	°C	-40 / 93	-40 / 93	+5 / +105	+5 / +93	-40 / +65	-20 / +58	-20 / +58	-20 / +65
	°F	-40 / +200	-40 / +200	+40 / +220	+40 / +200	+40 / +150	-4 / +136	-4 / +136	-4 / +150
Belt Weight	kg/m ² lb/sqft ²	13.3 / 2.72	13.3 / 2.72	13.3 / 2.72	8.0 / 1.64	9.9 / 2.02	9.5 / 1.94	9.5 / 1.94	11.8 / 2.40

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	406,4	508,0	609,6
Belt Width inch	16.00	20.00	24.00



Product Features and Functional Benefits

- High clean & Food-Safe open hinge design,
- Closed flat top surface,
- Molded to width single links,
- Unique sprocket engagement,
- Impact and cut resistant belt material options.

Important Notes

- Standard belt width increments 50,8 mm.
- Non-standard belt width increments 16,9 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.



HC508 PR22

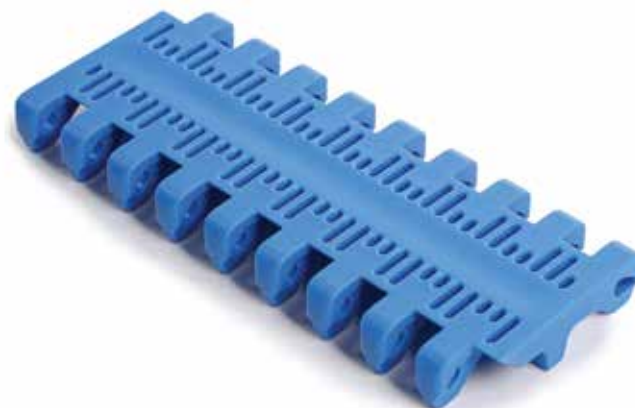
Modular Belt Series



MODUTECH®
Movement Technologies

HC508 PR22

Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	22%. (Biggest opening 2 x 10,7 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 6 mm / 0.236 inch
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.63 inch

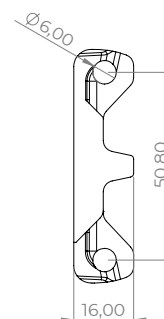
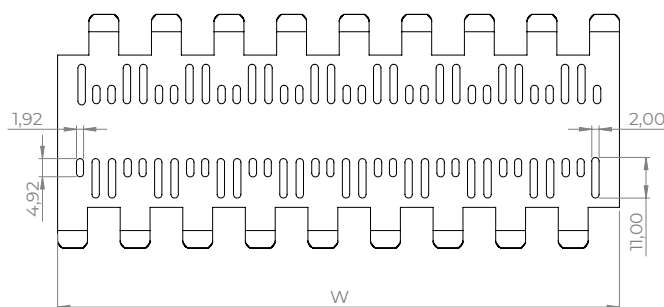


HC508 PR22 Technical Information

Belt Material		POM	POM	POM	PP	PP	PPH	PE
Pin Material		POM	PA	PE	PP	POM	PPH	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	18000 - 1233	10000 - 685
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	+5 / +110 +40 / +230	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	12.07 / 2.47	11.93 / 2.44	11.83 / 2.42	7.8 / 1.6	8.07 / 1.65	7.8 / 1.6	8.25 / 1.70

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8	1524,0
Belt Width inch	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Belt Width mm	1600,2																		
Belt Width inch	63																		

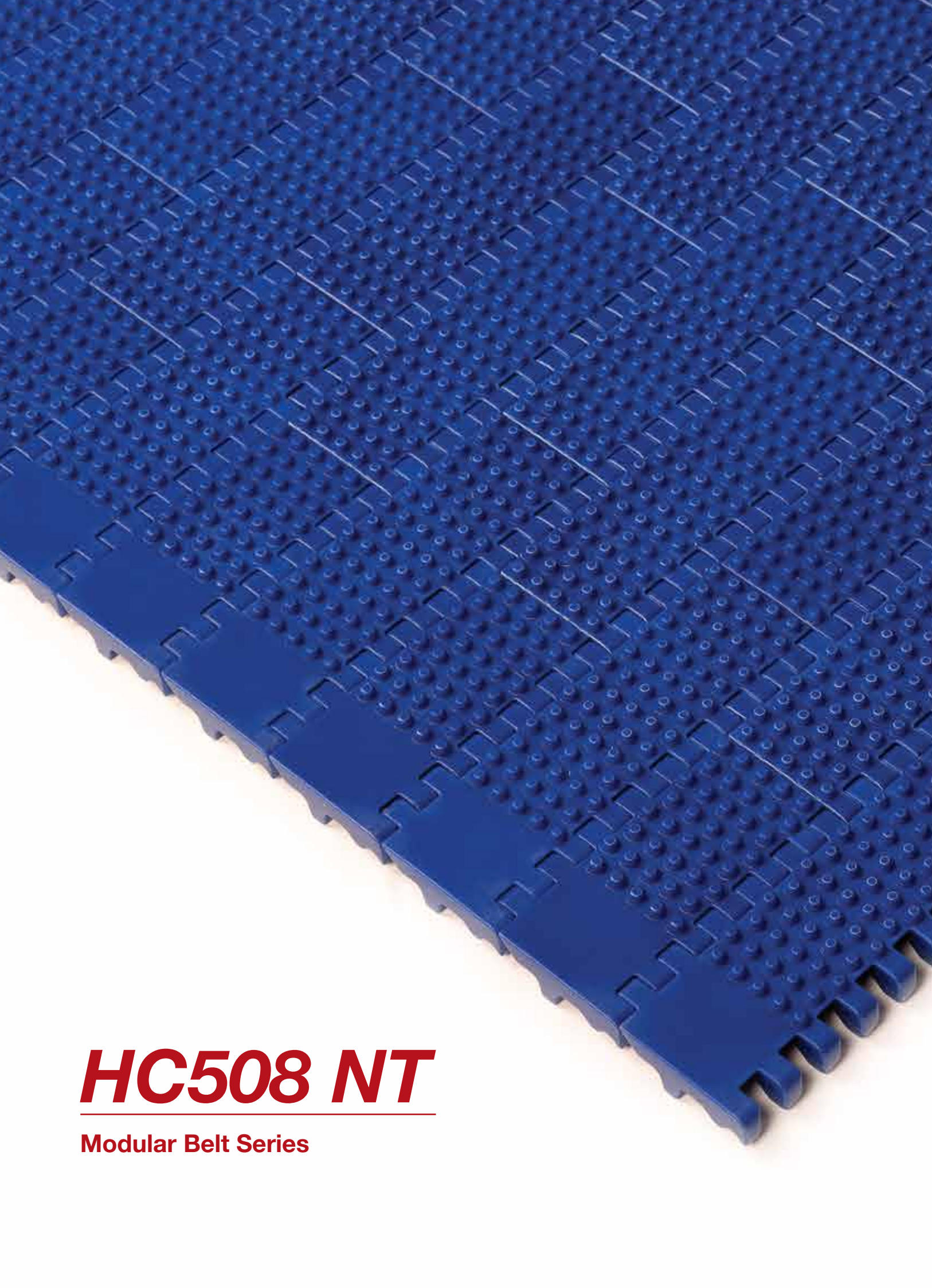


Product Features and Functional Benefits

- Hygienic & Food-Safe open hinge design
- Perforated flat top surface.
- Easy to clean.
- Different openings to optimize performance in cooling and draining applications.
- Unique sprocket engagement
- Food approved materials

Important Notes

- Standard belt increments 50,8 mm.
- Non-standard belt increments 16,9 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.

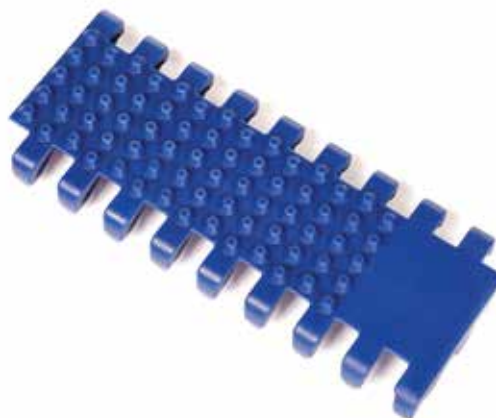


HC508 NT

Modular Belt Series

HC508 NT

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Nub Top Surface
Minimum Width:	304,8 mm / 12.00 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	No(*)
Pin:	Ø 6 mm / 0.236 inch
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Nub Height:	2,5 mm / 0.1 inch
Belt Thickness:	18,5mm / 0.728 inch

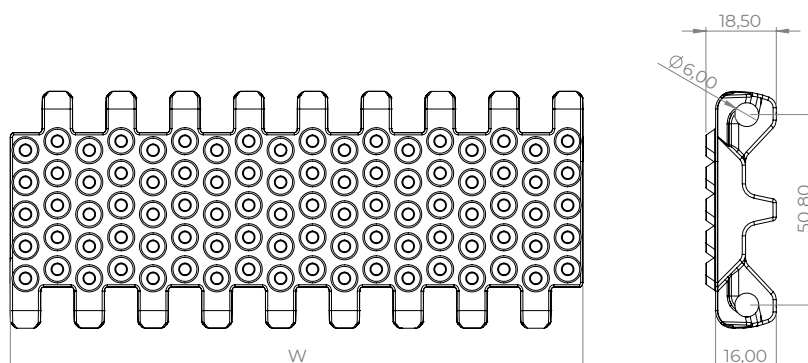


HC508 NT Technical Information

Belt Material		POM	POM	POM	PE	PE
Pin Material		POM	PA	PE	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	10000 - 685	10000 - 685
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	-40 / +65 -40 / +150	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m ² lb/sqft ²	14.35 / 2.94	14.35 / 2.94	14.35 / 2.94	10.53 / 2.16	9.87 / 2.02

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8	1524,0	1600,2
Belt Width inch	12	15	18	21	25	27	30	33	36	39	42	45	48	51	54	57	60	63

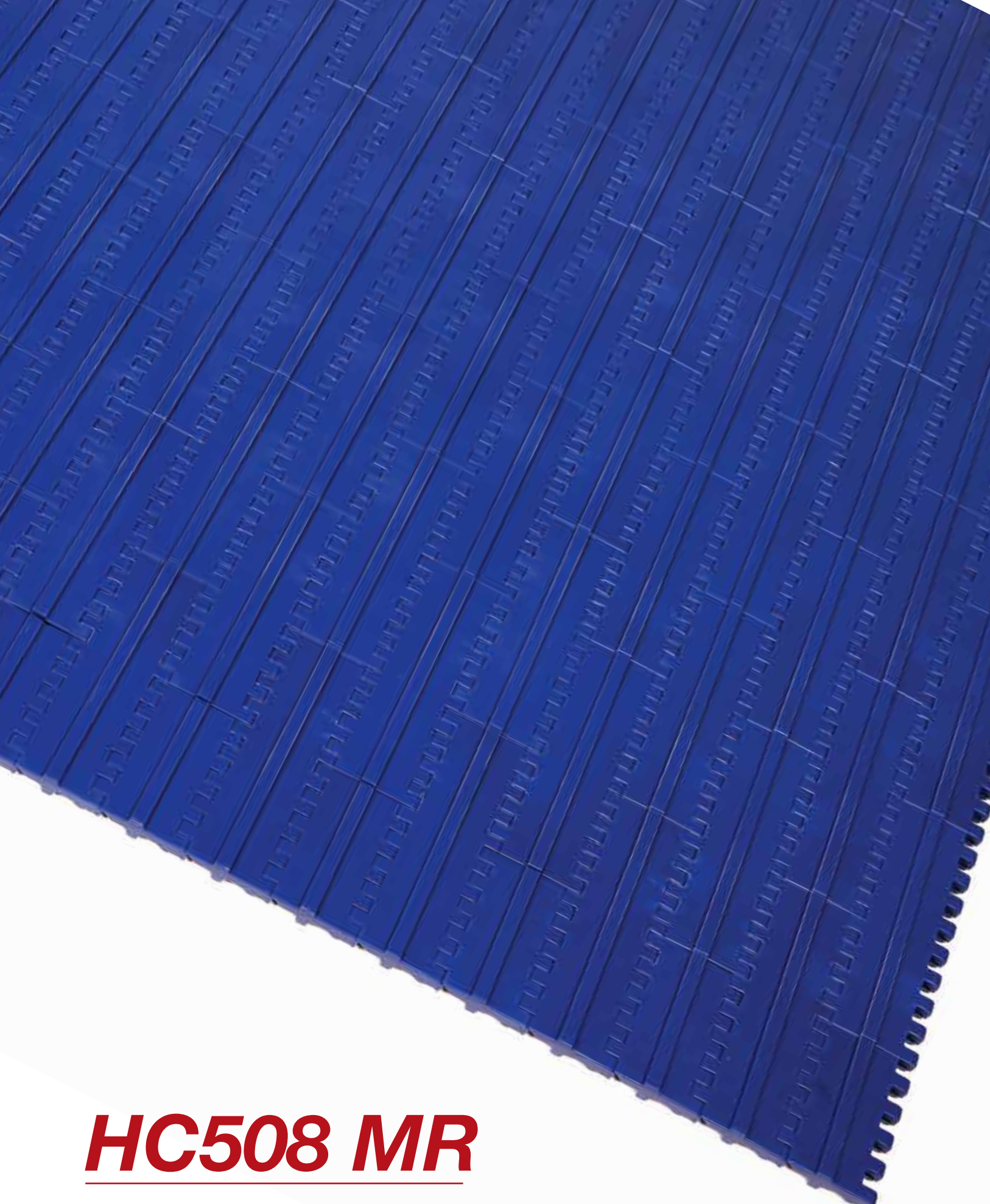


Product Features and Functional Benefits

- Hygienic & Food-Safe open hinge design
- Closed Nub Top surface
- Easy to clean.
- Reduced contact surface applicable for sticky applications.
- Unique sprocket engagement
- Food approved materials

Important Notes

- Standard belt increments 50,8 mm.
- Non-standard belt increments 16,9 mm.
- Please contact with customer service for precise belt measurements and special indentation demands.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- * Sidewalls cannot be offered as standard due to the belt surface.

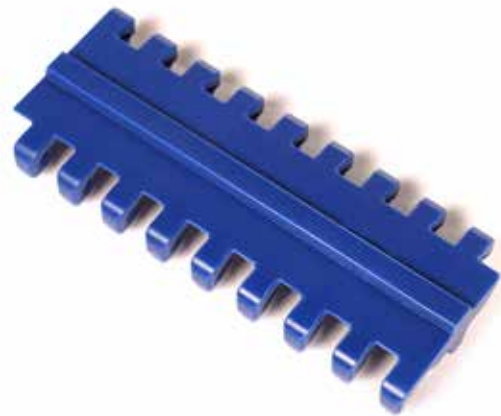


HC508 MR

Modular Belt Series

HC508 MR

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Mini Rib Surface
Minimum Width:	152,4 mm / 6.00 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	No(*)
Pin:	Ø 6 mm / 0.236 inch
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Rib Height:	3,2 mm / 0.126 inch
Belt Thickness:	19,20 mm / 0.756 inch

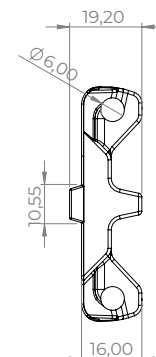
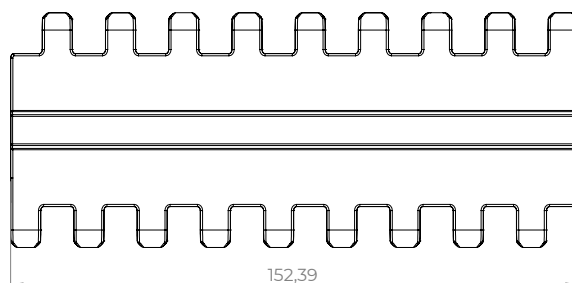


HC508 MR Technical Information

Belt Material		POM	POM	POM	PP	PP
Pin Material		POM	PA	PE	PP	POM
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233
Temperature	°C °F	-40 / 93 -40 / +200	-40 / 93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m ² lb/sqft ²	13.95 / 2.85	13.84 / 2.83	13.73 / 2.81	9.22 / 1.89	9.49 / 1.94

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6	1447,8	1524,0
Belt Width inch	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
Belt Width mm	1600,2																		
Belt Width inch	63																		



Product Features and Functional Benefits

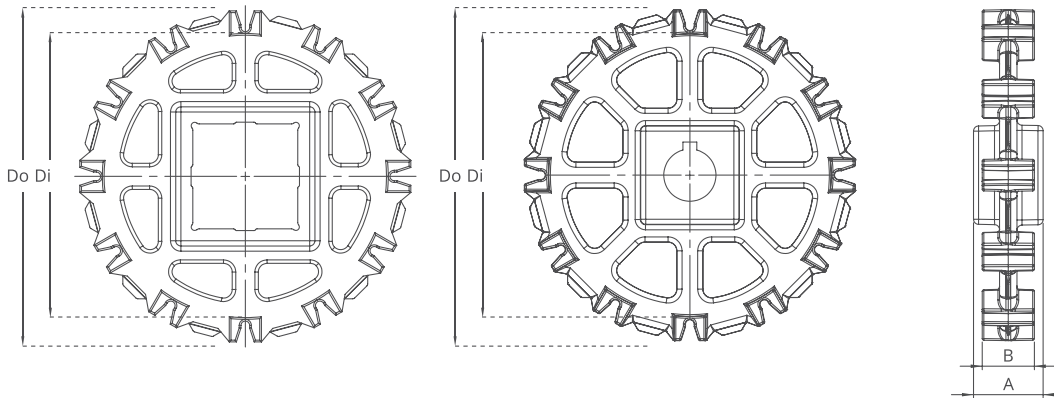
- Hygienic & Food-Safe open hinge design
- Closed Mini Rib surface
- Easy to clean.
- Mini rib design guides and aligns products during transport.
- Unique sprocket engagement
- Food approved materials

Important Notes

- Standard belt increments 50,8 mm.
- Non-standard belt increments 16,9 mm.
- Please contact with customer service for precise belt measurements and special indentation demands.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- * Sidewalls cannot be offered as standard due to the belt surface.

HC508 Series

Sprockets and Technical Specifications



HC508 Series / Molded Sprocket Dimensions

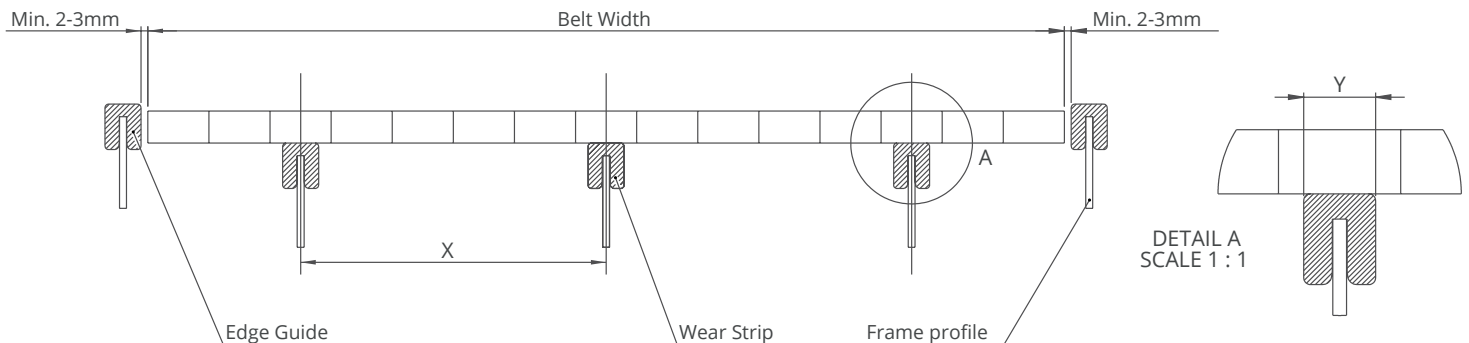
NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z6	72,9 / 2.87	90,2 / 3.54	40,0 / 1.57	30,0 / 1.18	40	1.5	25 to 30	1 to 1.25	EC-HC508SQZ6*PA	EC-HC508SRZ6*PA
Z8	107,1 / 4.22	124,6 / 4.91	40,0 / 1.57	30,0 / 1.18	40	1.5	25 to 30	1 to 1.25	EC-HC508SQZ8*PA	EC-HC508SRZ8*PA
Z10	141,6 / 5.57	158,2 / 6.22	40,0 / 1.57	30,0 / 1.18	40	1.5 & 2.5	30	1.25	EC-HC508SQZ10*PA	EC-HC508SRZ10*PA
Z12	174,6 / 6.87	191,1 / 7.52	40,0 / 1.57	30,0 / 1.18	40 & 60	1.5 & 2.5	30	1.25	EC-HC508SQZ12*PA	EC-HC508SRZ12*PA
Z16	234,30 / 9.34	257,8 / 10.15	40,0 / 1.57	30,0 / 1.18	60	-	-	-	EC-HC508SQZ16*PA	-

*Other sprockets and hub sizes are manufactured on request.

*POM (Acetal), PP (Polypropylene) and other special raw materials are available on request.

*CNC Machined Split Sprockets are available on request.

HC508 Series / Slider Support System For Straight Running Belts



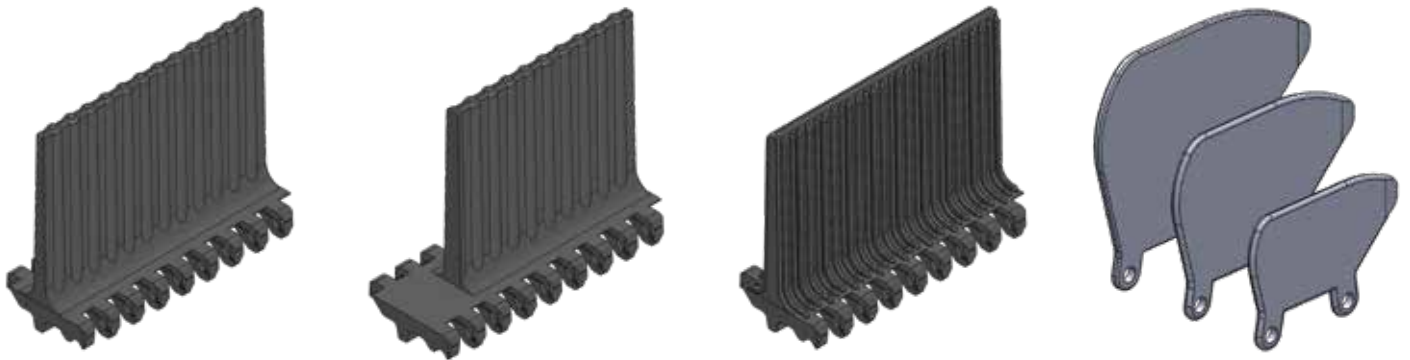
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1" belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

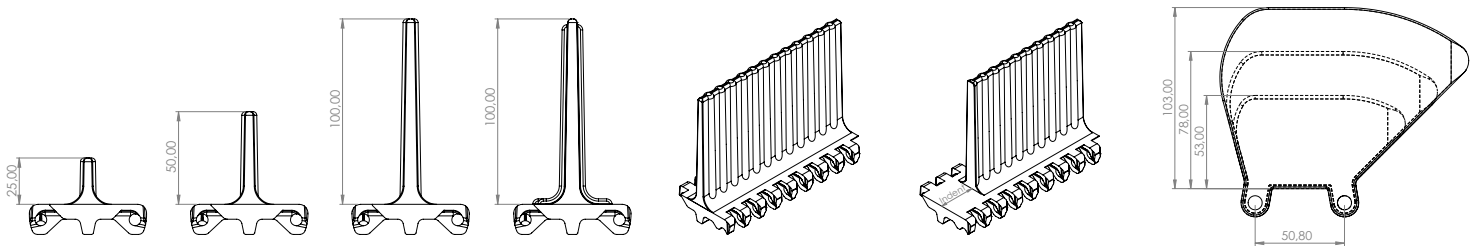
HC508 Series

Accessories and Technical Specifications



HC508 Series / Flight & Sidewall Dimensions

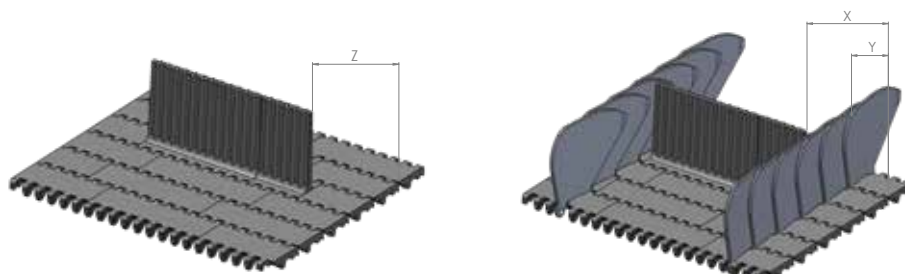
HC508 Series /Flights & Sidewalls				
PRODUCT CODE	Flight Height (mm/inch)	Flight Width (mm/inch)	PRODUCT CODE	Sidewall Height (mm/inch)
HC508T25E	25 / 1	152,4 / 6	U508SW50	53 / 2.09
HC508T50E	50 / 2	152,4 / 6	U508SW75	78 / 3.07
HC508T100E	100 / 4	152,4 / 6	U508SW100	103 / 4.06
HC508T150E	150 / 6	152,4 / 6	-	-
HC508T25M	25 / 1	152,4 / 6	-	-
HC508T50M	50 / 2	152,4 / 6	-	-
HC508T100M	100 / 4	152,4 / 6	-	-
HC508T150M	150 / 6	152,4 / 6	-	-
HC508TNC100E	100 / 4	152,4 / 6	-	-
HC508TNC100M	100 / 4	152,4 / 6	-	-
HC508T50E-INT	50 / 2	152,4 / 6 (Self Indent: 33 / 1.3)	-	-
HC508T100E-INT	100 / 4	152,4 / 6 (Self Indent: 33 / 1.3)	-	-



HC508 Series / Universal Sidewall Technical Specifications

Possible Sidewall and Flights Indents	Z		X		Y	
	mm	inch	mm	inch	mm	inch
Standard, no module cutting	33,00	1.30	31,85	1.25	15,00	0.59
Standard, no module cutting	50,80	2.00	49,2	1.94	32,35	1.27
Non-Standard, module cutting	67,00	2.64	59,98	2.36	43,13	1.70
Non-Standard, module cutting	83,80	3.30	83,15	3.27	66,30	2.61
Standard, no module cutting	101,60	4.00	99,35	3.91	82,50	3.25

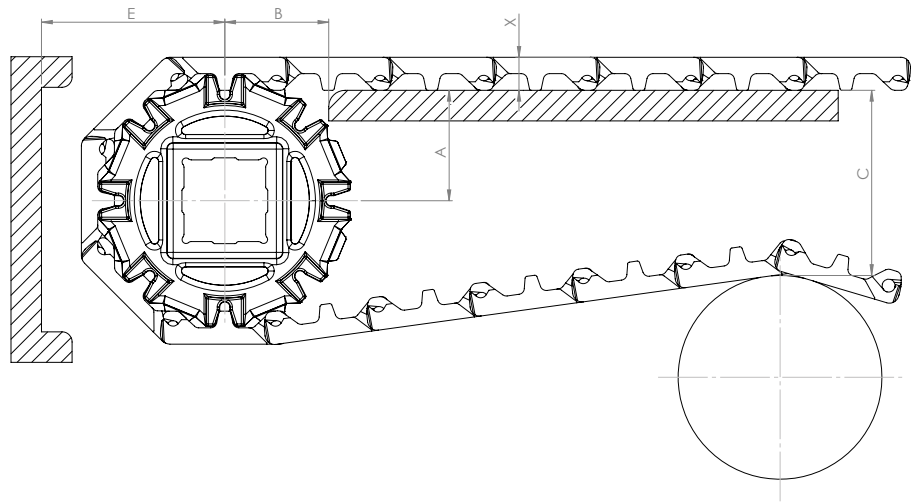
Note: The gap between flight and sidewall should be minimum 2-3 mm.



HC508 Series

Engineering Information

A: $\pm 0,031"$ (1mm)
 B: $\pm 0,125"$ (1mm)
 C: $\pm$ (Max.)
 E: $\pm$ (Min.)

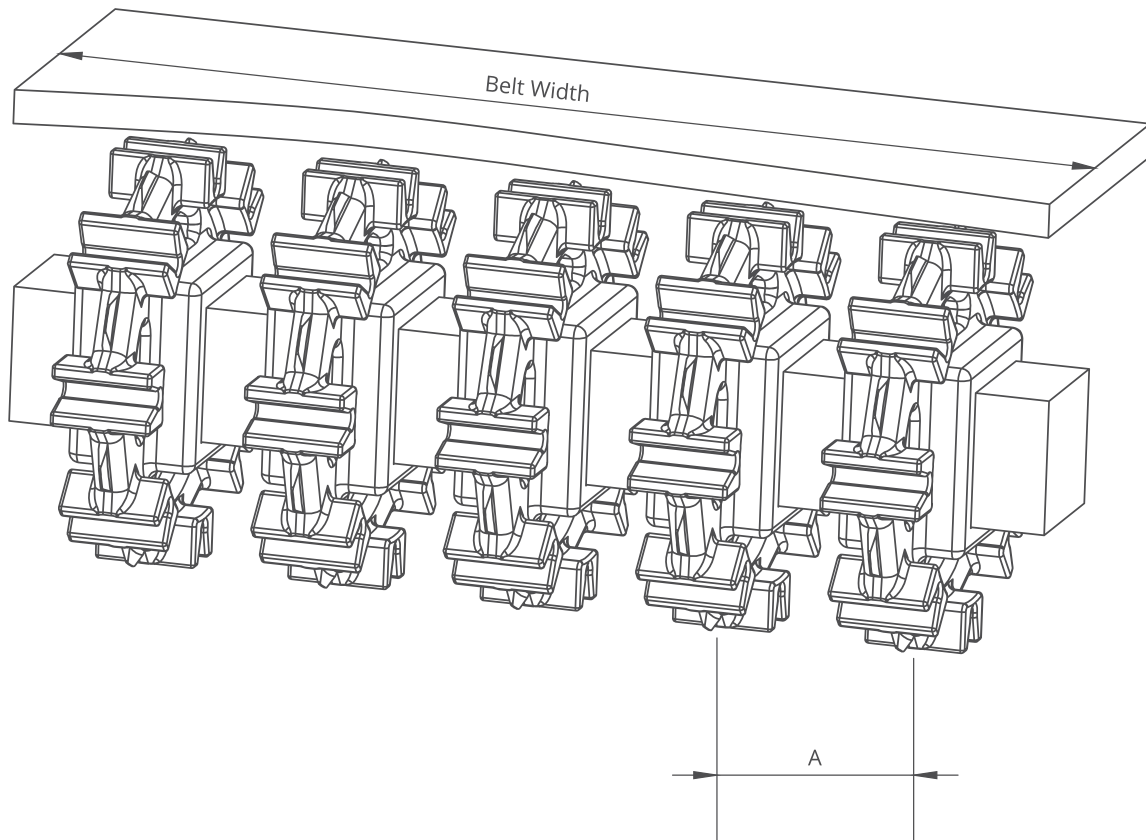


HC508 Series / Conveyor Frame Dimensions

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								
HC508 C, HC508C-MTW, HC508 PR22												
3.90	99,00	6	1.64	41,62	1.67	42,3	2.93	74,3	2.86	72,62	0.63	16,0
5.26	133,62	8	2.32	58,93	2.01	51,0	4.23	107,4	3.54	89,93	0.63	16,0
6.59	167,45	10	2.99	75,84	2.32	58,9	5.52	140,3	4.21	106,84	0.63	16,0
7.64	194,00	12	3.51	89,13	2.45	62,1	6.87	174,6	4.73	120,13	0.63	16,0
10.30	262,00	16	4.80	122	2.83	72,0	9.53	242,0	5.71	145,12	0.63	16,0
HC508 MR												
3.90	99,00	6	1.64	41,62	1.67	42,3	3.04	77,3	2.98	75,62	0.75	19,0
5.26	133,62	8	2.32	58,93	2.01	51,0	4.35	110,4	3.66	92,93	0.75	19,0
6.59	167,45	10	2.99	75,84	2.32	58,9	5.64	143,3	4.32	109,84	0.75	19,0
7.64	194,00	12	3.51	89,13	2.45	62,1	6.99	177,6	4.85	123,13	0.75	19,0
10.30	262,00	16	4.80	122	2.83	72,0	9.65	245,0	5.83	148,12	0.75	19,0
HC508 NT												
3.90	99,00	6	1.64	41,62	1.67	42,3	3.02	76,8	2.96	75,12	0.73	18,5
5.26	133,62	8	2.32	58,93	2.01	51,0	4.33	109,9	3.64	92,43	0.73	18,5
6.59	167,45	10	2.99	75,84	2.32	58,9	5.62	142,8	4.30	109,34	0.73	18,5
7.64	194,00	12	3.51	89,13	2.45	62,1	6.97	177,1	4.83	122,63	0.73	18,5
10.30	262,00	16	4.80	122	2.83	72,0	9.63	244,5	5.81	147,62	0.73	18,5

HC508 Series

Engineering Information



HC508 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch	Minimum	Carryway	Returnway	Min.	Max.
152,4	6	2	2	2	51 / 2.0	152 / 6.0
203,2	8	2	2	2	51 / 2.0	152 / 6.0
254,0	10	2	2	2	51 / 2.0	152 / 6.0
304,8	12	3	3	2	51 / 2.0	152 / 6.0
355,6	14	3	3	3	51 / 2.0	152 / 6.0
406,4	16	3	3	3	51 / 2.0	152 / 6.0
457,2	18	3	3	3	51 / 2.0	152 / 6.0
508,0	20	5	4	3	51 / 2.0	152 / 6.0
609,6	24	5	4	3	51 / 2.0	152 / 6.0
762,0	30	5	5	4	51 / 2.0	152 / 6.0
812,8	32	7	5	4	51 / 2.0	152 / 6.0
914,4	36	7	5	4	51 / 2.0	152 / 6.0
1066,8	42	7	6	5	51 / 2.0	152 / 6.0
1219,2	48	9	7	5	51 / 2.0	152 / 6.0
1371,6	54	9	7	6	51 / 2.0	152 / 6.0
1524,0	60	11	8	6	51 / 2.0	152 / 6.0
1828,8	72	13	9	7	51 / 2.0	152 / 6.0
2133,6	84	15	11	8	51 / 2.0	152 / 6.0
2438,4	96	17	12	9	51 / 2.0	152 / 6.0
3048,0	120	21	15	11	51 / 2.0	152 / 6.0

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belt widths, central distance of sprockets should be maximum 152,4mm (6").

*For wider belts, central distance of carryway wearstrips maximum 228,6mm (9"), returnway wearstrips maximum 304,8mm (12").



MODUTECH®

EC508

Modular Belt Series

EC508 C

EC508 C-RT / Roller Top

EC508 GT / Friction Top

EC508 PR22%

EC508 FG

EC508 FG-NT

EC508 PR11%

EC508 PR13%

EC508 DT

EC508 NT

Sprockets % Accessories

Engineering Information







EC508 C

Modular Radius Series

- **Meat Applications**

Slaughtering - Evisceration, Cutting Lines, Debonning Lines, Bone Takeaway, Dressing Lines, Trim Lines

- **Poultry Applications**

Live Birds, Slaughtering - Evisceration, Skinning, Cut - Up, Chiller Discharge, Bird Accumulation, Freezing Lines, Elevator

- **Sea Food Applications**

Trim Lines, Control Tables, Glazing, Elevator

- **Bakery Applications**

Raw Dough Handling, Laminating Lines

- **Snack Food Applications**

Potato Processing

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control Sorting Table, Filling

- **Ski Lift / Chair Lift Conveyors**

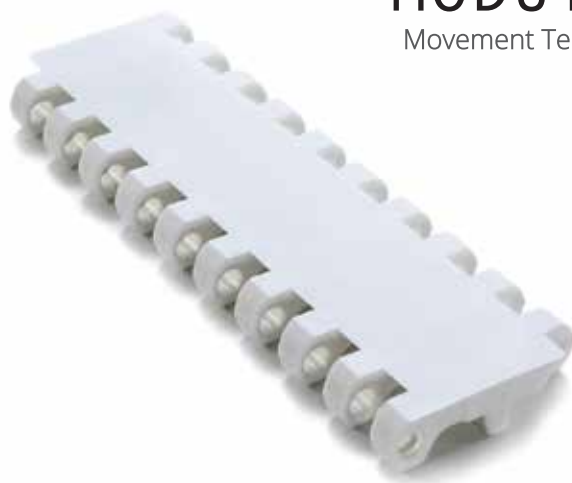
Ski Lift / Chair Lift Conveyors

- **Packaging Applications**

Bulk Inclines, Box Transport Horizontal

EC508 C

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.630 inch

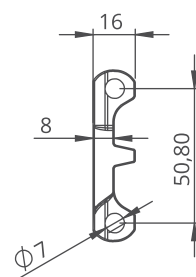
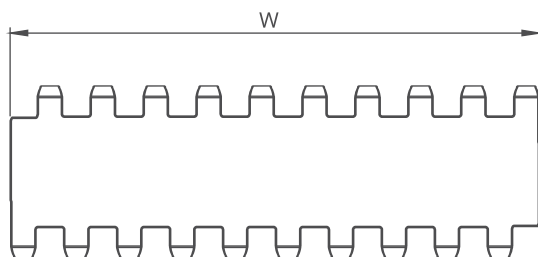


EC508 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PE	PP	POM	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	10000 - 685	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m ² lb/sqft ²	13.5 / 2.77	13.5 / 2.77	13.5 / 2.77	9.0 / 1.85	9.0 / 1.85	9.4 / 1.93	9.4 / 1.93

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



Product Features and Functional Benefits

- Easy to clean reduces downtime for cleaning time 70%.
- Close transfer applications.
- Reduces bacteria growth.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to withstand heavy objects falling into the belt.

Important Notes

- **Standard belt increments 100 mm.**
- **Non-standard belt increments 20 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally **0.1% to 0.3%** smaller.
- For PE material up to **750 mm (30") -3 mm to 0 mm** and **-0.4% to 0%** for wider belts.
- For PP material up to **750 mm (30") -3 mm to 0 mm** and **-0.3% to 0.1%** for wider belts.
- For POM material up to **750 mm (30") -3 mm to 0 mm** and **-0.4% to 0%** for wider belts.



EC508 C-RT

Roller Top

Modular Radius Series

- **Packaging Applications**

Labelling, Case Packers, Tray Packers, Palletizing - Depalletizing,
Accumulation Lines

- **Bakery Applications**

Pan & Tray Handling

- **Meat & Poultry Applications**

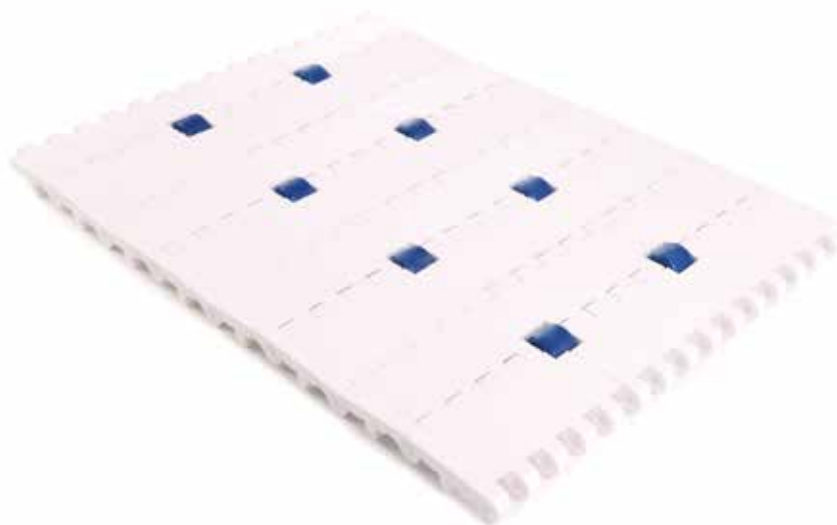
Case & Box Handling, Accumulation Lines



MODUTECH[®]
Movement Technologies

EC508 C-RT (Roller Top)

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Roller Top Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	23 mm / 0.9 inch

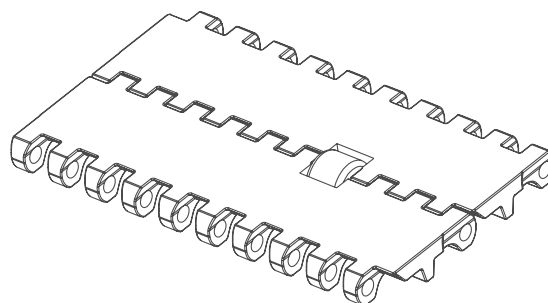
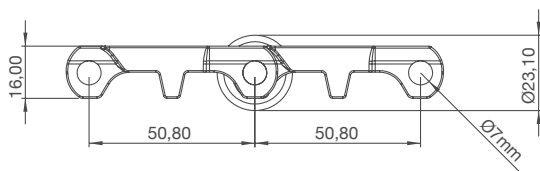


EC508 C-RT Technical Information

Belt Material		POM	POM
Roller Material		POM	
Pin Material		PA	POM
Belt Strength	N/m lb/ft	22500 - 1541	22500 - 1541
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	13.5 / 2.77	13.5 / 2.77

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0	1900,0
Belt Width inch	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87	74.80
Belt Width mm	2000,0	2100,0	2200,0														
Belt Width inch	78.74	82.68	86.61														



Product Features and Functional Benefits

- Easy to clean product design.
- Bi-directional and strong belt for long conveyors.
- Speeding operations, place the wearstrips under the rollers.
- Accumulation operations, place the wearstrips between rollers

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Central distance between rollers and offset to next row up to request.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



EC508 GT

Friction Top

Modular Belt Series

- **Skiing Applications**

Ski Lift / Chair Lift Conveyors

- **Tire Manufacturing Applications**

Tire Transport Incline - Decline

- **Packaging Applications**

Box Incline - Decline Conveyors

- **Textile Applications**

Dyeing



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EC508 GT (FrictionTop)

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Friction Top Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	19 mm / 0.75 inch

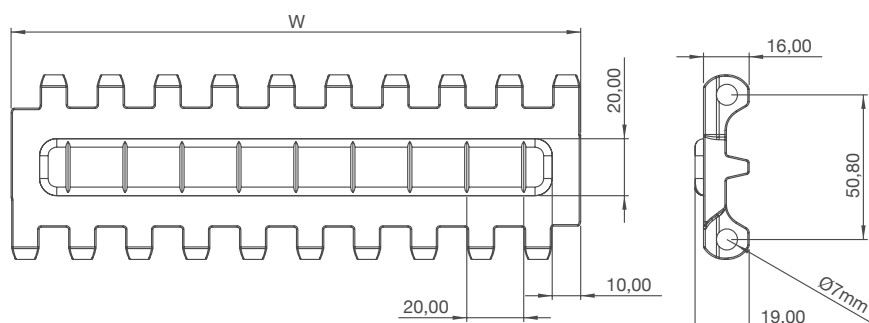


EC508 GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PP	POM
Belt Strength	N/m lb/ft	29000 - 1987	31000 - 2124
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m ² lb/sqft ²	9.9 / 2.03	9.9 / 2.03

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	19.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



Product Features and Functional Benefits

- Strong module design.
- Flat rubber top increases friction in incline-decline applications.
- Easy to clean flat top surface.
- Unique sprocket engagement - higher product load and longer conveyors.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



EC508 PR22%

Modular Belt Series

- **Meat Applications**

Dressing Lines, Trim Lines, Elevator, Metal Detector

- **Poultry Applications**

Cut-up Lines, Debonning Lines, Chiller Discharge,
Rehang / Bird Accumulation, Freezing Lines, Elevators

- **Sea Food Applications**

Draining, Elevator

- **Snack Food Applications**

Corn Draining

- **Fruits and Vegetables Applications**

Prewashing / Rinsing, Draining, Peeling, Elevator, Blanching



MODUTECH[®]
Movement Technologies

EC508 PR22%

Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	22%. (Biggest opening 3 x 12 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.630 inch

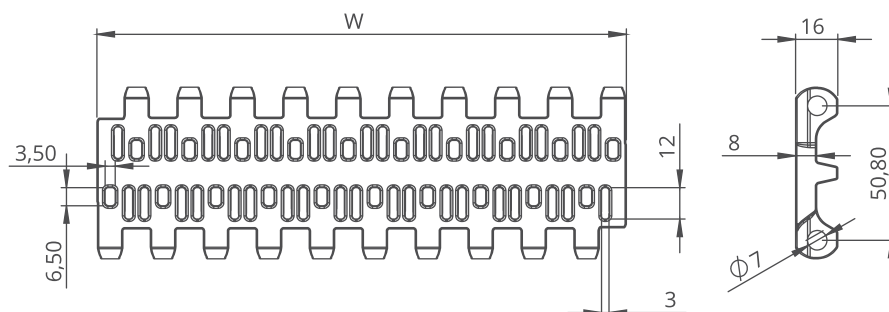


EC508 PR22% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PE	PP	POM	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	10000 - 685	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m ² lb/sqft ²	13.5 / 2.77	13.5 / 2.77	13.5 / 2.77	9.0 / 1.85	9.0 / 1.85	9.4 / 1.93	9.4 / 1.93

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



Product Features and Functional Benefits

- Unique sprocket engagement - precise indexing, easy cleaning.
- Different openings to optimize performance in cooling and draining applications.
- Easy to clean reduces downtime for cleaning time 70%.
- Unique sprocket engagement - higher product load and longer conveyors.
- Reduces bacteria growth.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -3 mm to 1 mm and -0.3% to 0.3% for wider belts.
- For PP material up to 750 mm (30") -2 mm to 1 mm and -0.3% to 0.1% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



EC508 FG

Modular Belt Series

- **Bakery Applications**

Oven Infeed/Outfeed, Cooling Lines, Coating Lines, Glazing Lines, Freezing Lines, Conditioning Lines

- **Sea Food Applications**

Breeding Machines, Draining Lines

- **Snack Food Applications**

Proofer Lines, Boiler Infeed, Oven Infeed / Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Prewashing / Rinsing, Draining

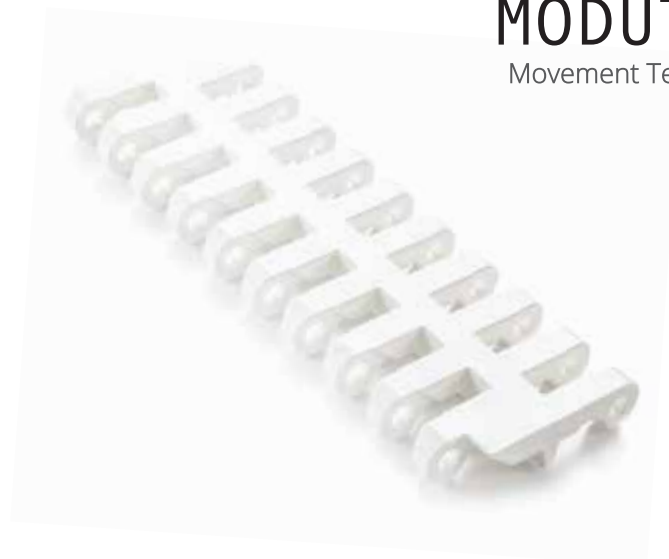
- **Tire Manufacturing Applications**

Mixer Infeed / Outfeed, Extrusion Shower Lines, Cooling Incline, Cooling Decline, Cooling Horizontal



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Movement Technologies

EC508 FG



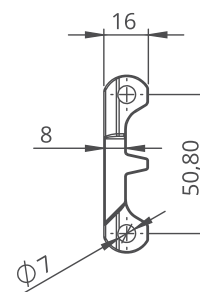
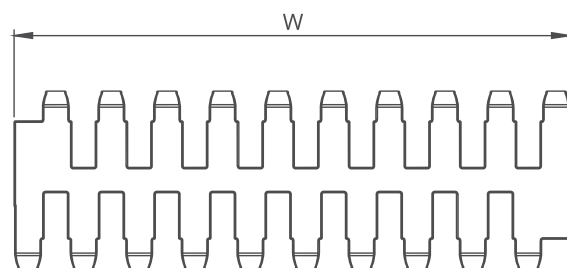
Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	35%. (Biggest opening 9 x 12 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.630 inch

EC508 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	25500 - 1746	25500 - 1746	24500 - 1678	17500 - 1200	17500 - 1200	10000 - 684
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	11.0 / 2.25	11.0 / 2.25	11.0 / 2.25	7.5 / 1.54	7.5 / 1.54	8.0 / 1.65

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



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.
- Easy to clean reduces downtime for cleaning time 70%.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- For PE material up to 750 mm (30") 0 mm to 1 mm and 0% to 0.1% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.3% to 0% for wider belts.



EC508 FG-NT

Modular Belt Series

- **Bakery Applications**

Oven Infeed/Outfeed, Cooling Lines, Coating Lines, Glazing Lines, Freezing Lines, Conditioning Lines

- **Sea Food Applications**

Breeding Machines, Draining Lines

- **Snack Food Applications**

Proofer Lines, Boiler Infeed, Oven Infeed / Outfeed, Cooling Lines

- **Fruits and Vegetables Applications**

Prewashing / Rinsing, Draining

- **Tire Manufacturing Applications**

Mixer Infeed / Outfeed, Extrusion Shower Lines, Cooling Incline, Cooling Decline, Cooling Horizontal



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EC508 FG-NT

Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Nub Top Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	35%. (Biggest opening 9 x 12 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	18.5 mm / 0.728 inch

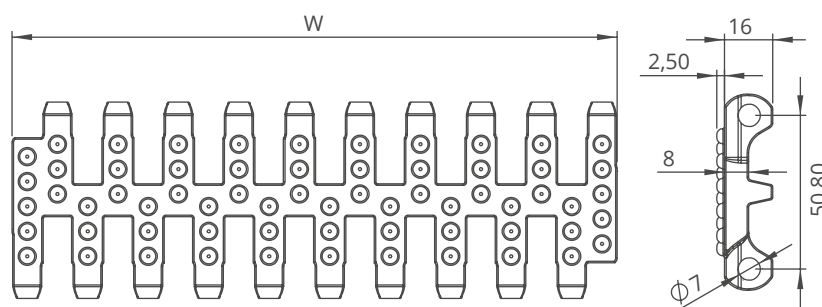


EC508 FG-NT Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	25500 - 1746	25500 - 1746	24500 - 1678	17500 - 1200	17500 - 1200	10000 - 684
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	11.0 / 2.25	11.0 / 2.25	11.0 / 2.25	7.5 / 1.54	7.5 / 1.54	8.0 / 1.65

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



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.
- Non-adhesive due to reduced contact surface.
- Reduced dirt and oxide build due to self cleaning surface.
- Easy to clean reduces downtime for cleaning time 70%.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- For PE material up to 750 mm (30") 0 mm to 1 mm and 0% to 0.1% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.3% to 0% for wider belts.



EC508 PR11%

Modular Belt Series

- **Meat Applications**

Dressing Lines, Trim Lines, Elevator, Metal Detector

- **Poultry Applications**

Cut-up Lines, Debonning Lines, Chiller Discharge,
Rehang / Bird Accumulation, Freezing Lines, Elevators

- **Sea Food Applications**

Draining, Elevator

- **Snack Food Applications**

Can Draining

- **Fruits and Vegetables Applications**

Prewashing / Rinsing, Draining, Peeling, Elevator



MODUTECH[®]
Movement Technologies

EC508 PR11%

Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Mesh Top Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	11%. (Biggest opening 1,2 x 12 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.630 inch

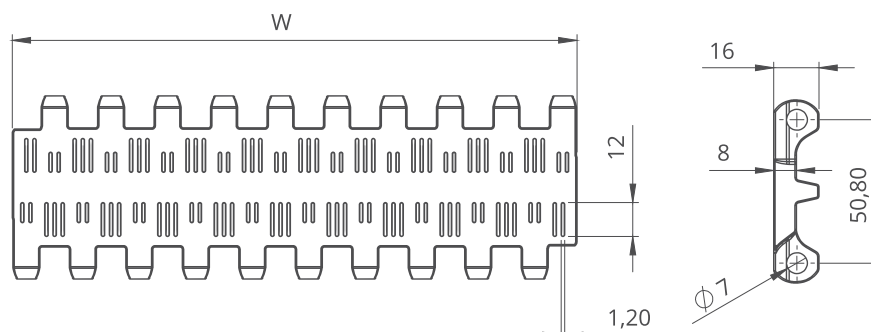


EC508 PR11% Technical Information

Belt Material		PP	PP	PE	PE
Pin Material		PP	POM	POM	PE
Belt Strength	N/m lb/ft	18000 - 4100	18000 - 4100	10000 - 685	10000 - 685
Temperature	°C °F	+5 / +105 +40 / +220	+5 / +93 -40 / +200	-40 / +65 -40 / +150	-70 / +65 +40 / +220
Belt Weight	kg/m ² lb/sqft ²	7.8 / 1.60	7.8 / 1.60	8.3 / 1.70	8.3 / 1.70

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



Product Features and Functional Benefits

- Unique sprocket engagement - precise indexing, easy cleaning.
- Different openings to optimize performance in cooling and draining applications.
- Easy to clean reduces downtime for cleaning time 70%.
- Unique sprocket engagement - higher product load and longer conveyors.
- Reduces bacteria growth.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") 0 mm to 1 mm and 0% to 0.1% for wider belts.



EC508 PR13%

Modular Belt Series

- **Poultry Applications**

Cut-up Lines, Debonning Lines, Chiller Discharge,
Rehang / Bird Accumulation, Freezing Lines, Elevators

- **Sea Food Applications**

Draining, Elevator

- **Snack Food Applications**

Can Draining

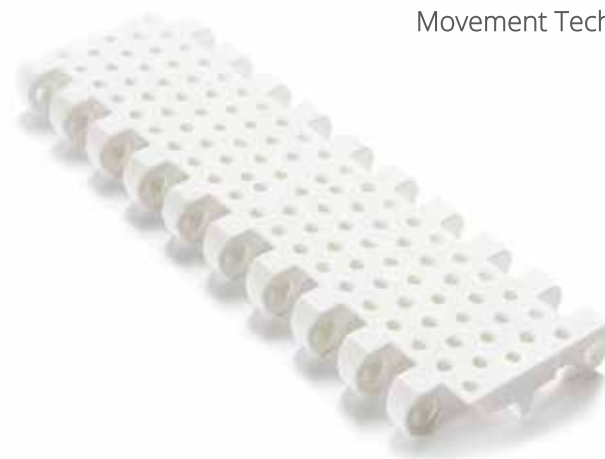
- **Fruits and Vegetables Applications**

Prewashing / Rinsing, Draining, Peeling, Elevator



MODUTECH®
Movement Technologies

EC508 PR13%



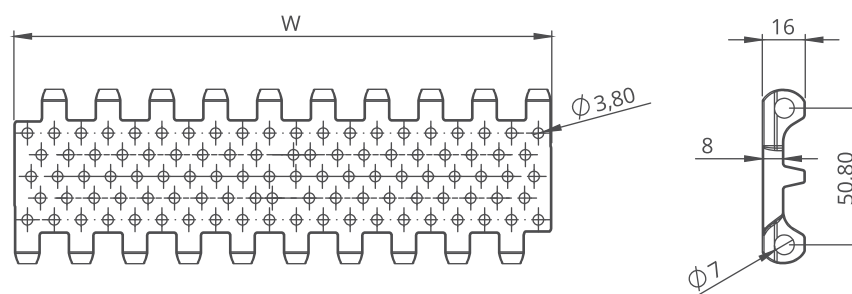
Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	13%. (Biggest opening Ø3,8 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	16 mm / 0.630 inch

EC508 PR13% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PE	PP	POM	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	10000 - 685	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	13.5 / 2.77	13.5 / 2.77	13.5 / 2.77	9.0 / 1.85	9.0 / 1.85	9.4 / 1.93	9.4 / 1.93

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													

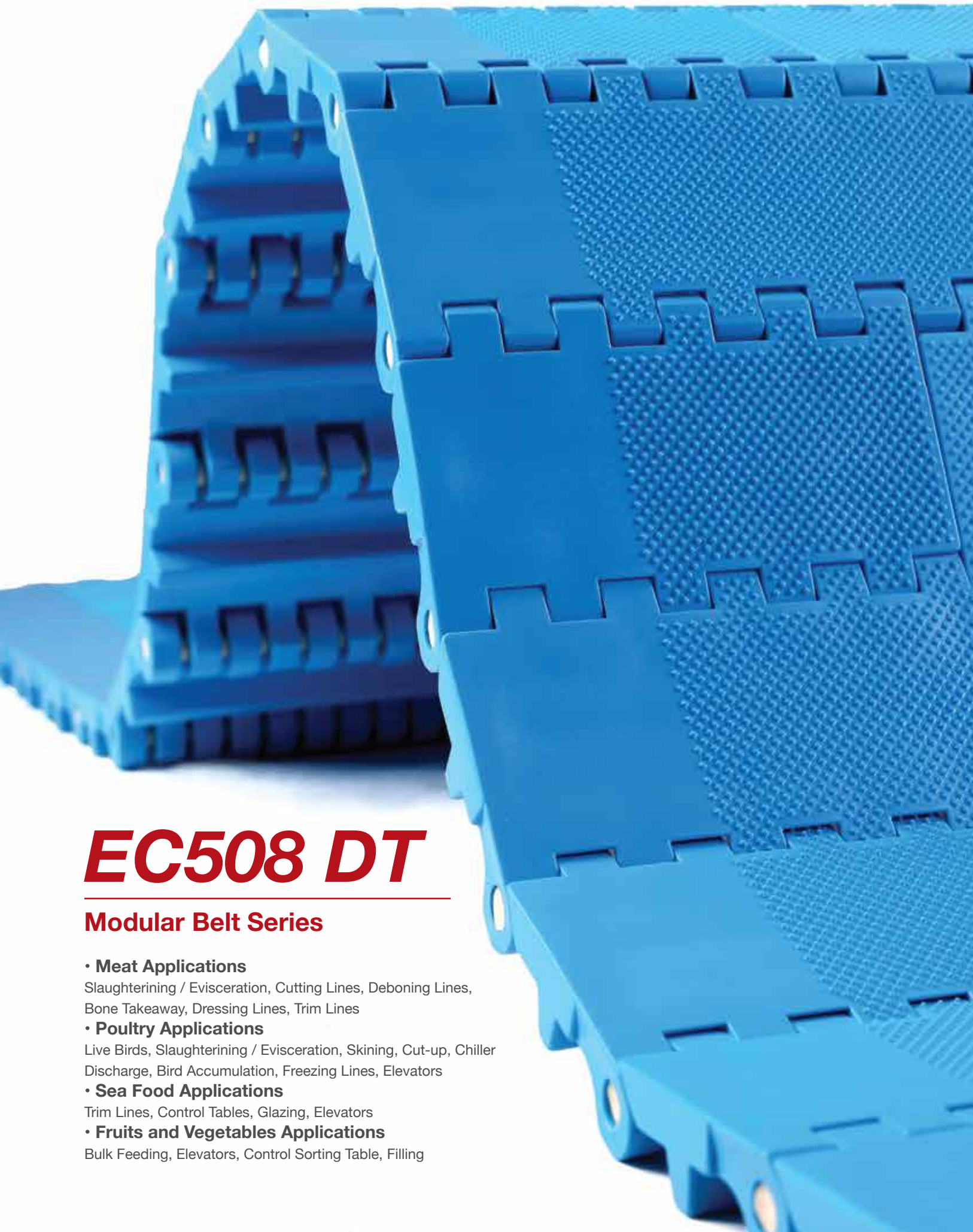


Product Features and Functional Benefits

- Unique sprocket engagement - precise indexing, easy cleaning.
- Different openings to optimize performance in cooling and draining applications.
- Easy to clean reduces downtime for cleaning time 70%.
- Unique sprocket engagement - higher product load and longer conveyors.
- Reduces bacteria growth.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") 0 mm to 1 mm and 0% to 0.1% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.3% to 0% for wider belts.



EC508 DT

Modular Belt Series

- **Meat Applications**

Slaughtering / Evisceration, Cutting Lines, Deboning Lines, Bone Takeaway, Dressing Lines, Trim Lines

- **Poultry Applications**

Live Birds, Slaughtering / Evisceration, Skining, Cut-up, Chiller Discharge, Bird Accumulation, Freezing Lines, Elevators

- **Sea Food Applications**

Trim Lines, Control Tables, Glazing, Elevators

- **Fruits and Vegetables Applications**

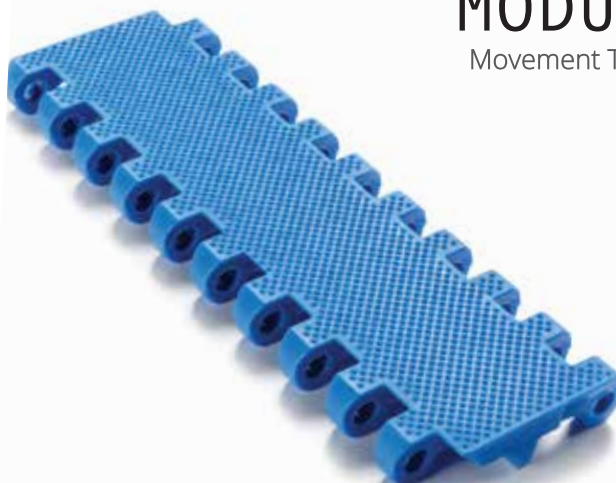
Bulk Feeding, Elevators, Control Sorting Table, Filling



MODUTECH®
Movement Technologies

EC508 DT

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Diamond Top Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	0%
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.276 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	17 mm / 0.669 inch

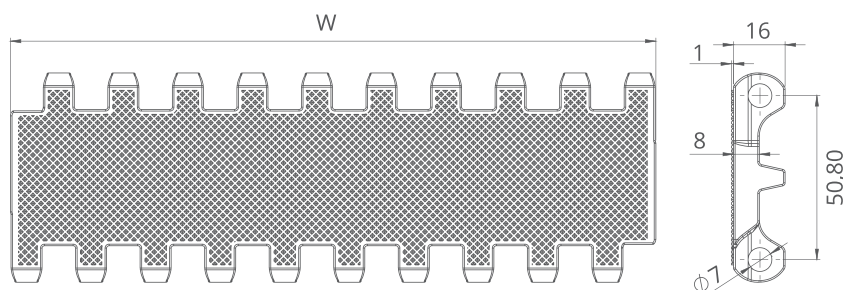


EC508 DT Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PE	PP	POM	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	10000 - 685	10000 - 685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	13.5 / 2.77	13.5 / 2.77	13.5 / 2.77	9.0 / 1.85	9.0 / 1.85	9.4 / 1.93	9.4 / 1.93

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



Product Features and Functional Benefits

- Easy to clean reduces downtime for cleaning time 70%.
- Close, sticky transfer applications. Non-adhesive due to reduced contact surface.
- Reduces bacteria growth.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to withstand heavy objects falling into the belt.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.3% to 0% for wider belts.



EC508 NT

Modular Belt Series

- **Meat Applications**

Slaughtering / Evisceration, Cutting Lines, Deboning Lines,
Bone Takeaway, Dressing Lines, Trim Lines

- **Poultry Applications**

Live Birds, Slaughtering / Evisceration, Skining, Cut-up, Chiller Discharge,
Bird Accumulation, Freezing Lines, Elevators

- **Sea Food Applications**

Trim Lines, Control Tables, Glazing, Elevators

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevators, Control Sorting Table, Filling



MODUTECH®
Movement Technologies

EC508 NT

Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Nub Top Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	Yes
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Excellent
Belt Thickness:	18,5 mm / 0.728 inch

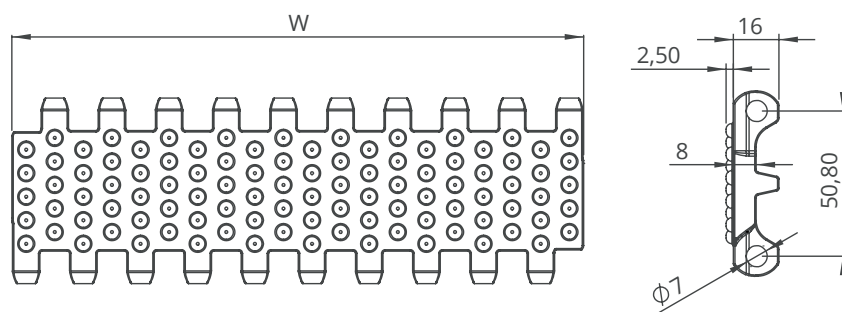


EC508 NT Technical Information

Belt Material		POM	POM	POM	PP	PP	PE	PE
Pin Material		PA	POM	PE	PP	POM	POM	PE
Belt Strength	N/m lb/ft	30000 - 2055	30000 - 2055	18000 - 1233	18000 - 1233	18000 - 1233	10000 -685	10000 -685
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	-40 / +65 -40 / +150	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 +40 / +150	-70 / +65 -50 / +150
Belt Weight	kg/m² lb/sqft²	13.5 / 2.77	13.5 / 2.77	13.5 / 2.77	9.0 / 1.85	9.0 / 1.85	9.4 / 1.93	9.4 / 1.93

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	200,0	300,0	400,0	500,0	600,0	700,0	800,0	900,0	1000,0	1100,0	1200,0	1300,0	1400,0	1500,0	1600,0	1700,0	1800,0
Belt Width inch	7.87	11.81	15.75	16.69	23.62	27.56	31.50	35.43	39.37	43.31	47.24	51.18	55.12	59.06	62.99	66.93	70.87
Belt Width mm	1900,0	2000,0	2100,0	2200,0													
Belt Width inch	74.80	78.74	82.68	86.61													



Product Features and Functional Benefits

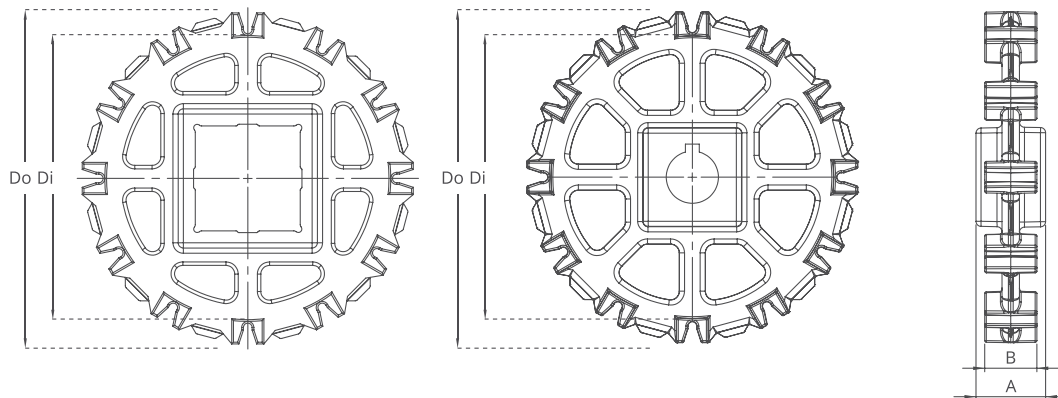
- Easy to clean reduces downtime for cleaning time 70%.
- Close, sticky transfer applications. Non-adhesive due to reduced contact surface.
- Reduces bacteria growth.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to withstand heavy objects falling into the belt.

Important Notes

- Standard belt increments 100 mm.
- Non-standard belt increments 20 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -3 mm to 0 mm and 0.4% to 0% for wider belts.
- For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

EC508 Series

Sprockets and Technical Specifications



EC508 Series / Molded Sprocket Dimensions

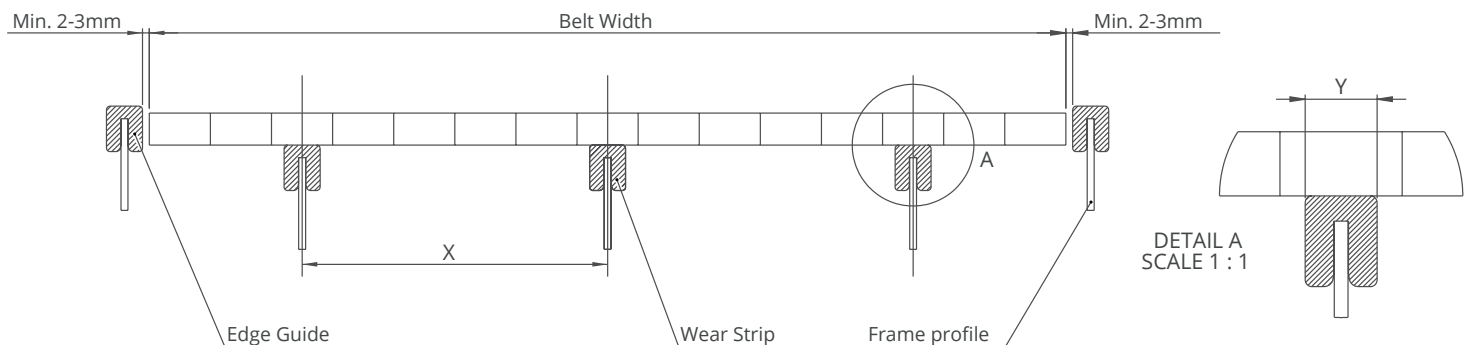
NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z6	72,9 / 2.87	90,2 / 3.54	40,0 / 1.57	30,0 / 1.18	40	1.5	25 to 30	1 to 1.25	EC-HC508SQZ6*PA	EC-HC508SRZ6*PA
Z8	107,1 / 4.22	124,6 / 4.91	40,0 / 1.57	30,0 / 1.18	40	1.5	25 to 30	1 to 1.25	EC-HC508SQZ8*PA	EC-HC508SRZ8*PA
Z10	141,6 / 5.57	158,2 / 6.22	40,0 / 1.57	30,0 / 1.18	40	1.5 & 2.5	30	1.25	EC-HC508SQZ10*PA	EC-HC508SRZ10*PA
Z12	174,6 / 6.87	191,1 / 7.52	40,0 / 1.57	30,0 / 1.18	40 & 60	1.5 & 2.5	30	1.25	EC-HC508SQZ12*PA	EC-HC508SRZ12*PA
Z16	234,30 / 9.34	257,8 / 10.15	40,0 / 1.57	30,0 / 1.18	60	-	-	-	EC-HC508SQZ16*PA	-

*Other sprockets and hub sizes are manufactured on request.

*POM (Acetal), PP (Polypropylene) and other speical raw materials are available on request.

*CNC Machined Split Sprockets are available on request.

EC508 Series / Slider Support System For Straight Running Belts



Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1" belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

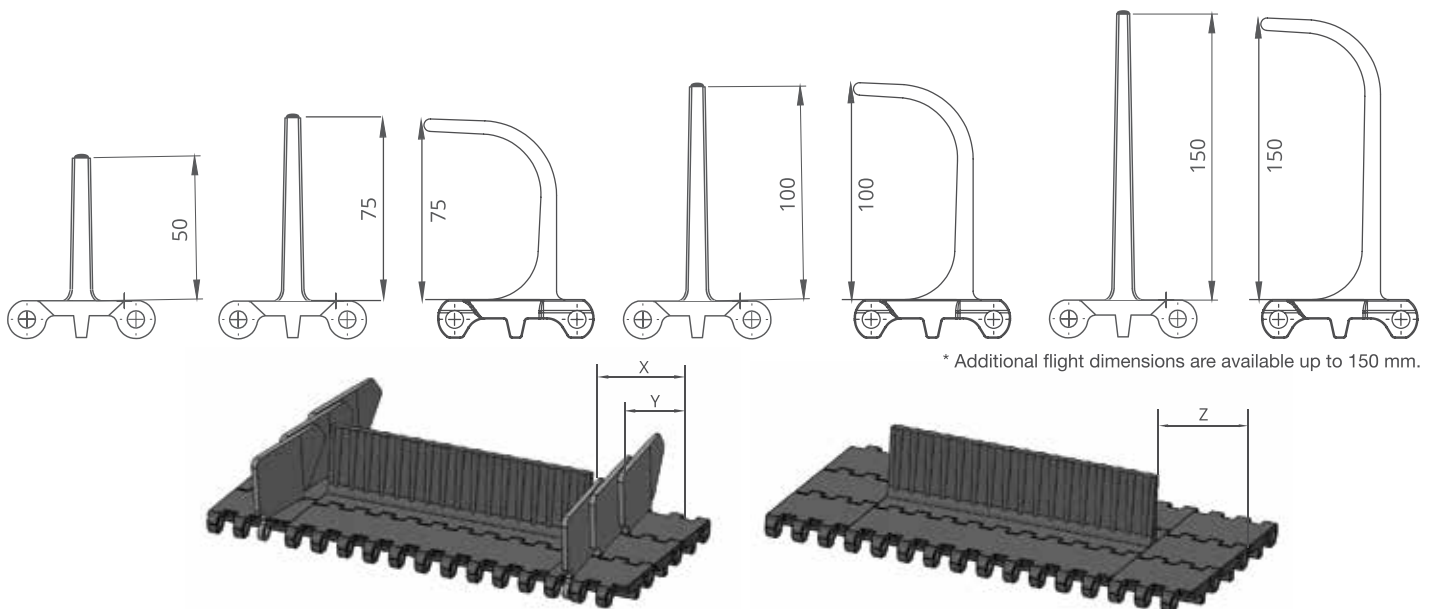
EC508 Series

Accessories and Technical Specifications



EC508 Series / Flight & Sidewall Dimensions

EC508 Series / Flights & Sidewalls				
PRODUCT CODE	Flight Height (mm/inch)	Flight Width (mm/inch)	PRODUCT CODE	Sidewall Height (mm/inch)
EC508T25	25 / 1	200 / 7.87	EC508SW25	25 / 1
EC508T50	50 / 2	200 / 7.87	EC508SW50	50 / 2
EC508T75	75 / 3	200 / 7.87	EC508SW75	75 / 3
EC508T100	100 / 4	200 / 7.87	EC508SW100	100 / 4
EC508T150	150 / 6	200 / 7.87	U508SW50	53 / 2.09
EC508TC75	75 / 3	200 / 7.87	U508SW75	78 / 3.07
EC508TC100	100 / 4	200 / 7.87	U508SW100	103 / 4.06
EC508TC150	150 / 6	200 / 7.87	-	-
EC508TCC75	75 / 3	200 / 7.87	-	-
EC508TCC100	100 / 4	200 / 7.87	-	-
EC508TCC150	150 / 6	200 / 7.87	-	-
EC508TNC100	100 / 4	200 / 7.87	-	-
EC508TCH100	100 / 4	200 / 7.87	-	-
EC508TCCH100	100 / 4	200 / 7.87	-	-



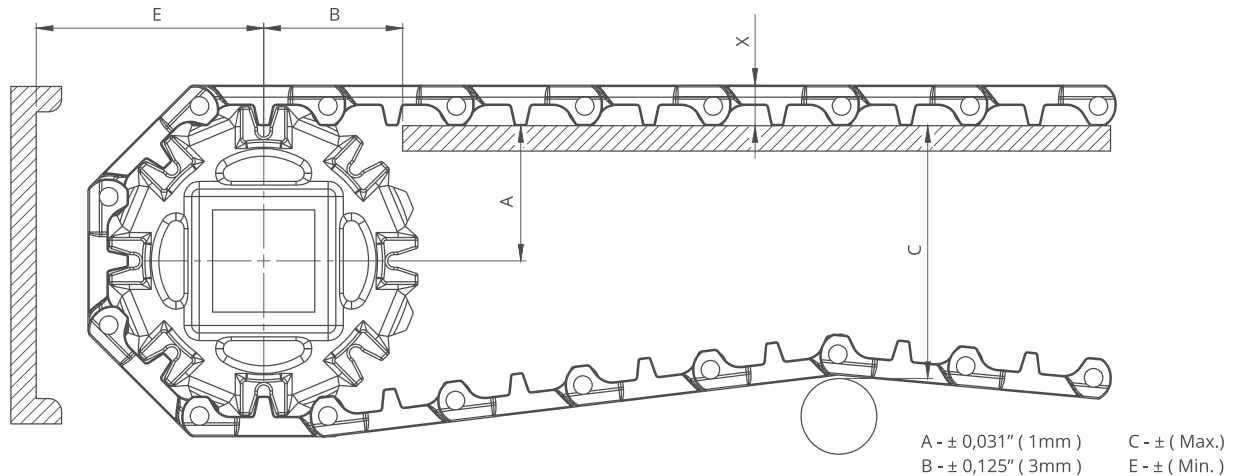
EC508 Series / Sidewall Technical Specifications

Possible Sidewall and Flights Indents	X		Y		Z	
	mm	inch	mm	inch	mm	inch
Standard, no module cutting	30,1	1.18	18,3	0.72	40,0	1.57
Non-Standard, module cutting	40,1	1.58	28,3	1.12	50,0	1.97
Standard, no module cutting	50,1	1.97	38,3	1.51	60,0	2.36
Non-Standard, module cutting	60,1	2.36	48,3	1.90	70,0	2.76
Standard, module cutting	70,1	2.76	58,3	2.30	80,0	3.15
Non-Standard, module cutting	80,1	3.15	68,3	2.69	90,0	3.54

Note: Gap between flight and sidewall minimum 2-3 mm

EC508 Series

Engineering Information

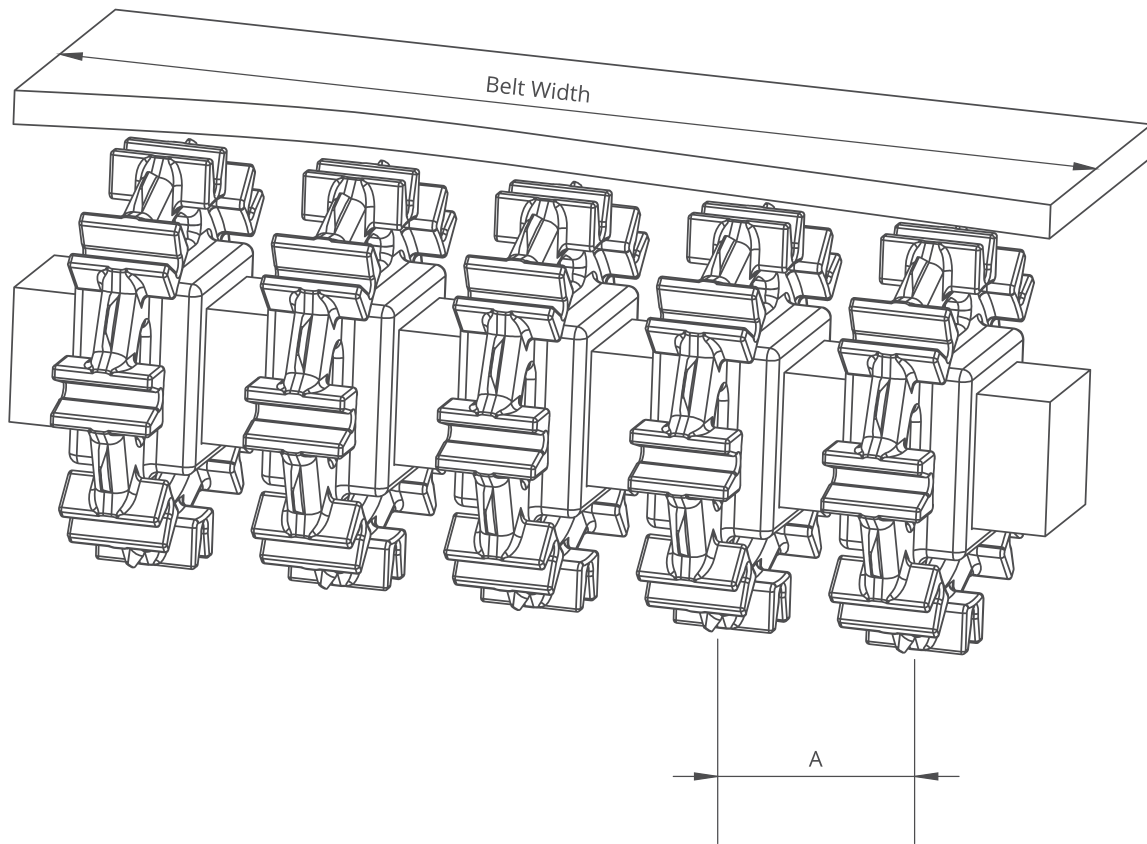


EC508 Series / Conveyor Frame Dimensions

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								
EC508 C, EC508 PR22%, EC508 PR13%, EC508 PR11%, EC508 FG												
3.23	82,0	6	1.70	43,3	1.72	43,8	2.92	74,3	2.73	69,3	0.63	16,0
4.57	116,0	8	2.34	59,4	2.08	52,7	4.23	107,4	3.36	85,4	0.63	16,0
5.91	150,0	10	2.96	75,3	2.38	60,5	5.52	140,3	3.99	101,3	0.63	16,0
7.23	183,6	12	3.65	92,8	2.58	65,5	6.87	174,6	4.68	118,8	0.63	16,0
10.30	262,00	16	4.80	122	2.83	72,0	9.52	242,0	5.70	145	0.63	16,0
EC508 DT												
3.23	82,0	6	1.70	43,3	1.72	43,8	2.92	74,3	2.73	69,3	0.67	17,0
4.57	116,0	8	2.34	59,4	2.08	52,7	4.23	107,4	3.36	85,4	0.67	17,0
5.91	150,0	10	2.96	75,3	2.38	60,5	5.52	140,3	3.99	101,3	0.67	17,0
7.23	183,6	12	3.65	92,8	2.58	65,5	6.87	174,6	4.68	118,8	0.67	17,0
10.30	262,00	16	4.80	122	2.83	72,0	9.52	242,0	5.70	145	0.67	17,0
EC508 NT, EC508 FG-NT												
3.23	82,0	6	1.70	43,3	1.72	43,8	2.83	71,8	2.83	71,8	0.73	18,5
4.57	116,0	8	2.34	59,4	2.08	52,7	4.13	104,9	3.46	87,9	0.73	18,5
5.91	150,0	10	2.96	75,3	2.38	60,5	5.43	137,8	4.09	103,8	0.73	18,5
7.23	183,6	12	3.65	92,8	2.58	65,5	6.78	172,1	4.78	121,3	0.73	18,5
10.30	262,00	16	4.80	122	2.83	72,0	9.41	239,0	5.83	148	0.73	18,5
EC508 C-RT, EC508 FG-RT												
3.23	82,0	6	1.57	39,8	1.72	43,8	2.92	74,3	2.87	72,8	0.90	23,1
4.57	116,0	8	2.20	55,9	2.08	52,7	4.23	107,4	3.50	88,9	0.90	23,1
5.91	150,0	10	2.83	71,9	2.38	60,5	5.52	140,3	4.13	104,8	0.90	23,1
7.23	183,6	12	3.52	89,3	2.58	65,5	6.87	174,6	4.81	122,3	0.90	23,1
10.30	262,00	16	4.70	119,5	2.83	72,0	9.52	242,0	5.87	149	0.90	23,1
EC508 GT												
3.23	82,0	6	1.70	43,3	1.72	43,8	3.04	77,3	2.85	72,3	0.75	19,0
4.57	116,0	8	2.34	59,4	2.08	52,7	4.35	110,4	3.48	88,4	0.75	19,0
5.91	150,0	10	2.96	75,3	2.38	60,5	5.64	143,3	4.11	104,3	0.75	19,0
7.23	183,6	12	3.65	92,8	2.58	65,5	6.99	177,6	4.80	121,8	0.75	19,0
10.30	262,00	16	4.80	122	2.83	72,0	9.65	245	5.83	148	0.75	19,0

EC508 Series

Engineering Information



EC508 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
200,0	6	2	2	2	100 / 4.0	200 / 8.0
300,0	8	2	2	2	100 / 4.0	200 / 8.0
400,0	10	3	3	2	100 / 4.0	200 / 8.0
500,0	12	3	3	3	100 / 4.0	200 / 8.0
600,0	14	3	4	3	100 / 4.0	200 / 8.0
700,0	16	5	4	3	100 / 4.0	200 / 8.0
800,0	18	5	5	3	100 / 4.0	200 / 8.0
900,0	20	5	5	4	100 / 4.0	200 / 8.0
1000,0	24	7	6	4	100 / 4.0	200 / 8.0
1100,0	30	7	6	4	100 / 4.0	200 / 8.0
1200,0	32	7	7	5	100 / 4.0	200 / 8.0
1400,0	36	9	7	5	100 / 4.0	200 / 8.0
1600,0	42	11	7	5	100 / 4.0	200 / 8.0
1800,0	48	11	8	5	100 / 4.0	200 / 8.0
2000,0	54	13	8	6	100 / 4.0	200 / 8.0
2200,0	60	15	9	6	100 / 4.0	200 / 8.0
2400,0	72	15	10	7	100 / 4.0	200 / 8.0
2600,0	84	17	11	8	100 / 4.0	200 / 8.0
2800,0	96	19	12	9	100 / 4.0	200 / 8.0
3000,0	120	19	13	10	100 / 4.0	200 / 8.0

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belt widths, central distance of sprockets should be maximum 200mm (8").

*For wider belts, central distance of carryway wearstrips maximum 250mm (10"), returnway wearstrips maximum 350mm (14").

MD508

Modular Belt Series

MD508 C
MD508 C-RT / Roller Top
MD508 FG
MD508 FG-RT / Roller Top
MD508 PR25%
MD508 NS
Sprockets % Accessories
Engineering Information





MD508 C

Modular Belt Series

- **Corrugated Cardboard Applications**

Palletizer, Down Stackers, Corrugator Take Off, Strap Feed

- **Wood Industry**

Board Handling, Pallets Conveying, Trimming & Cutting,
Pellets Elevator

- **Automotive Applications**

Car Body Assembly

- **Tire Manufacturing Applications**

Tire Transport Horizontal, Extrusion Outfeed, Sciver Cementing,
Water Blow-off

- **Packaging Applications**

Box Transport Horizontal, Pallet Transport

MD508 C



Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	150 mm / 5.90 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.629 inch

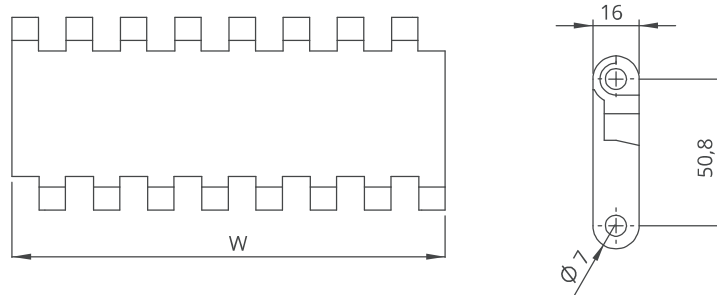


MD508 C Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	60000 - 4100	60000 - 4100	35000 - 2398	37400 - 2562	37400 - 2562	26400 - 1808
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	13.5 / 2.77	13.5 / 2.77	13.5 / 2.77	8.7 / 1.78	8.7 / 1.78	9.3 / 1.90

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	150,0	225,0	300,0	375,0	450,0	525,0	600,0	675,0	750,0	825,0	900,0	975,0	1050,0	1125,0	1200,0	1275,0	1350,0
Belt Width inch	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	29.53	32.48	35.43	38.39	41.34	44.29	47.24	50.20	53.15
Belt Width mm	1425,0	1500,0	1575,0	1650,0	1725,0												
Belt Width inch	56.10	59.06	62.01	64.96	67.91												



Product Features and Functional Benefits

- Closed, Flat top surface.
- High horizontal and vertical strength.
- High load capacity for wide and long conveyors.
- Bi-directional belt design.
- Suitability for many different applications.

Important Notes

- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -3 mm to 0 mm and 0.4% to 0% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



MD508 C-RT

Roller Top

Modular Belt Series

- **Packaging Applications**

Labelling, Case Packers, Tray Packers, Palletizing - Depalletizing, Accumulation Lines

- **Bakery Applications**

Pan & Tray Handling

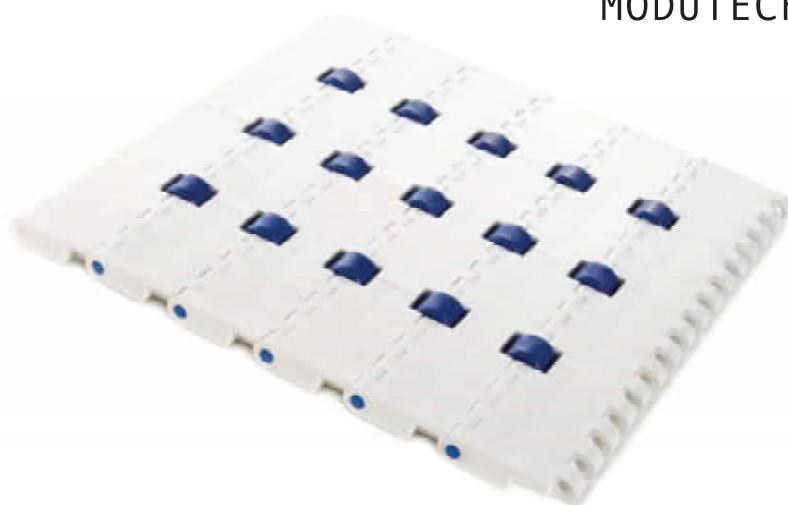
- **Meat&Poultry Applications**

Case & Box Handling, Accumulation Lines

MD508 C-RT (Roller Top)



Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	150 mm / 5.90 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.629 inch

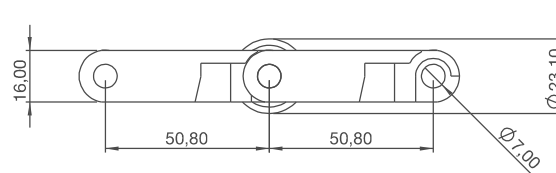
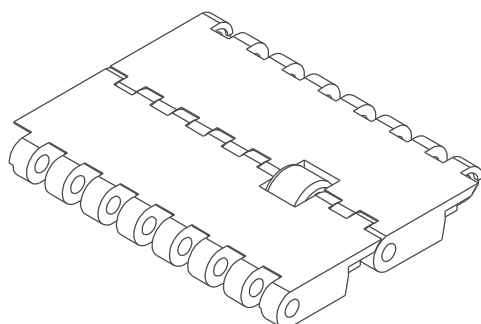


MD508 C-RT Technical Information

Belt Material		POM	POM
Roller Material		POM	
Pin Material		PA	POM
Belt Strength	N/m lb/ft	42000 - 2877	42000 - 2877
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	13.5 / 2.77	13.5 / 2.77

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	150,0	225,0	300,0	375,0	450,0	525,0	600,0	675,0	750,0	825,0	900,0	975,0	1050,0	1125,0	1200,0	1275,0	1350,0
Belt Width inch	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	29.53	32.48	35.43	38.39	41.34	44.29	47.24	50.20	53.15
Belt Width mm	1425,0	1500,0	1575,0	1650,0	1725,0												
Belt Width inch	56.10	59.06	62.01	64.96	67.91												



Product Features and Functional Benefits

- Closed, Flat top surface.
- High horizontal and vertical strength.
- High load capacity for wide and long conveyors.
- Speeding operations, place the wearstrips under the rollers.
- Accumulation operations, place the wearstrips between rollers.

Important Notes

- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Central distance between rollers and offset to next row up to request.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.



MD508 FG

Modular Belt Series

- **Meat (Beef & Pork) Applications**

Trim Lines, Crates Handling

- **Poultry Applications**

Elevators

- **Sea Food Applications**

Draining, Elevators

- **Bakery & Snack Food Applications**

Cooling Lines

- **Fruits and Vegetables Applications**

Washer, Draining, Peeling, Palletizing / Depalletizing, Container
Conveyance, Sterilization Conveyance

MD508 FG



Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	150 mm / 5.90 inch
Open Area (%):	34%. (Biggest opening 6 x 19,8 mm)
Flight:	Yes
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.629 inch

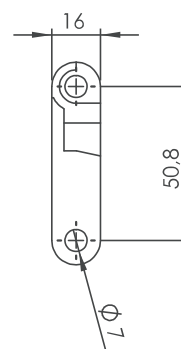
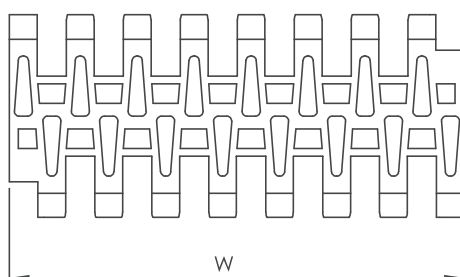


MD508 FG Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	35000 - 2397	35000 - 2397	30000 - 2355	26000- 1781	26000- 1781	18000 - 1233
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	10.2 / 2.09	10.2 / 2.09	10.2 / 2.09	6.8 / 1.39	6.8 / 1.39	7.2 / 1.48

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	150,0	225,0	300,0	375,0	450,0	525,0	600,0	675,0	750,0	825,0	900,0	975,0	1050,0	1125,0	1200,0	1275,0	1350,0
Belt Width inch	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	29.53	32.48	35.43	38.39	41.34	44.29	47.24	50.20	53.15
Belt Width mm	1425,0	1500,0	1575,0	1650,0	1725,0												
Belt Width inch	56.10	59.06	62.01	64.96	67.91												



Product Features and Functional Benefits

- Open, Flush grid surface.
- High horizontal and vertical strength.
- High load capacity for wide and long conveyors.
- Bi-directional belt design.
- Suitability for many different applications.

Important Notes

- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PE material up to 750 mm (30") -3 mm to 0 mm and 0.4% to 0% for wider belts.
- For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



MD508 FG-RT

Roller Top

Modular Belt Series

- **Packaging Applications**

Tray Packers, Palletizing - Depalletizing, Accumulation Lines

- **Bakery Applications**

Pan & Tray Handling

- **Meat & Poultry Applications**

Case & Box Handling, Accumulation Lines

MD508 FG-RT (Roller Top)



Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Roller Top Surface
Minimum Width:	150 mm / 5.90 inch
Open Area (%):	34%. (Biggest opening 6 x 19,8 mm)
Flight:	No
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.629 inch

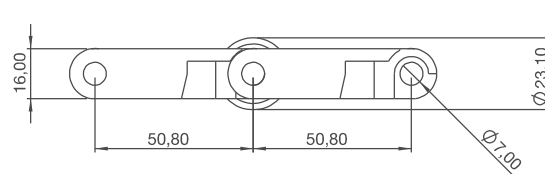
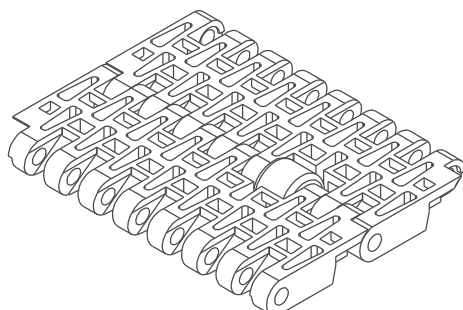


MD508 FG-RT Technical Information

Belt Material		POM	POM	PP	PP
Roller Material		POM			
Pin Material		PA	POM	PP	POM
Belt Strength	N/m lb/ft	22000 - 1507	22000 - 1507	19000 - 1300	19000 - 1300
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	10.2 / 2.09	10.2 / 2.09	6.8 / 1.39	6.8 / 1.39

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	150,0	225,0	300,0	375,0	450,0	525,0	600,0	675,0	750,0	825,0	900,0	975,0	1050,0	1125,0	1200,0	1275,0	1350,0
Belt Width inch	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	29.53	32.48	35.43	38.39	41.34	44.29	47.24	50.20	53.15
Belt Width mm	1425,0	1500,0	1575,0	1650,0	1725,0												
Belt Width inch	56.10	59.06	62.01	64.96	67.91												



Product Features and Functional Benefits

- Open, Flush grid surface.
- High horizontal and vertical strength.
- High load capacity for wide and long conveyors.
- Speeding operations, place the wearstrips under the rollers.
- Accumulation operations, place the wearstrips between rollers.

Important Notes

- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Central distance between rollers and offset to next row up to request.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP material up to 750 mm (30") -3 mm to 0 mm and 0.4% to 0% for wider belts.



MD508 PR25%

Heavy Duty Food Belts

Modular Belt Series

- **Meat (Beef & Pork) Applications**

Trim Lines, Crates Handling

- **Poultry Applications**

Elevators

- **Sea Food Applications**

Draining, Elevators

- **Bakery & Snack Food Applications**

Cooling Lines

- **Fruits and Vegetables Applications**

Prewashing / Rinsing Lines, Draining, Peeling, Sterilization Conveyance

MD508 PR25% (Heavy Duty Food Belts)



Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	150 mm / 5.90 inch
Open Area (%):	25%. (Biggest opening 3 x 19,5 mm)
Flight:	Yes
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Good
Belt Thickness:	16 mm / 0.629 inch

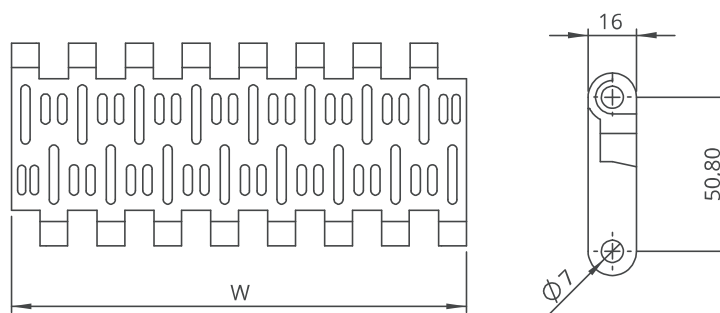


MD508 PR25% Technical Information

Belt Material		POM	POM	POM	PP	PP	PE
Pin Material		PA	POM	PP	PP	POM	POM
Belt Strength	N/m lb/ft	35000 - 2397	35000 - 2397	35000 - 2397	30000- 2055	30000- 2055	20000 - 1370
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200	-40 / +65 -40 / +150
Belt Weight	kg/m² lb/sqft²	10.2 / 2.09	10.2 / 2.09	8.4 / 1.72	8.4 / 1.72	8.4 / 1.72	8.8 / 1.80

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	150,0	225,0	300,0	375,0	450,0	525,0	600,0	675,0	750,0	825,0	900,0	975,0	1050,0	1125,0	1200,0	1275,0	1350,0
Belt Width inch	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	29.53	32.48	35.43	38.39	41.34	44.29	47.24	50.20	53.15
Belt Width mm	1425,0	1500,0	1575,0	1650,0	1725,0												
Belt Width inch	56.10	59.06	62.01	64.96	67.91												

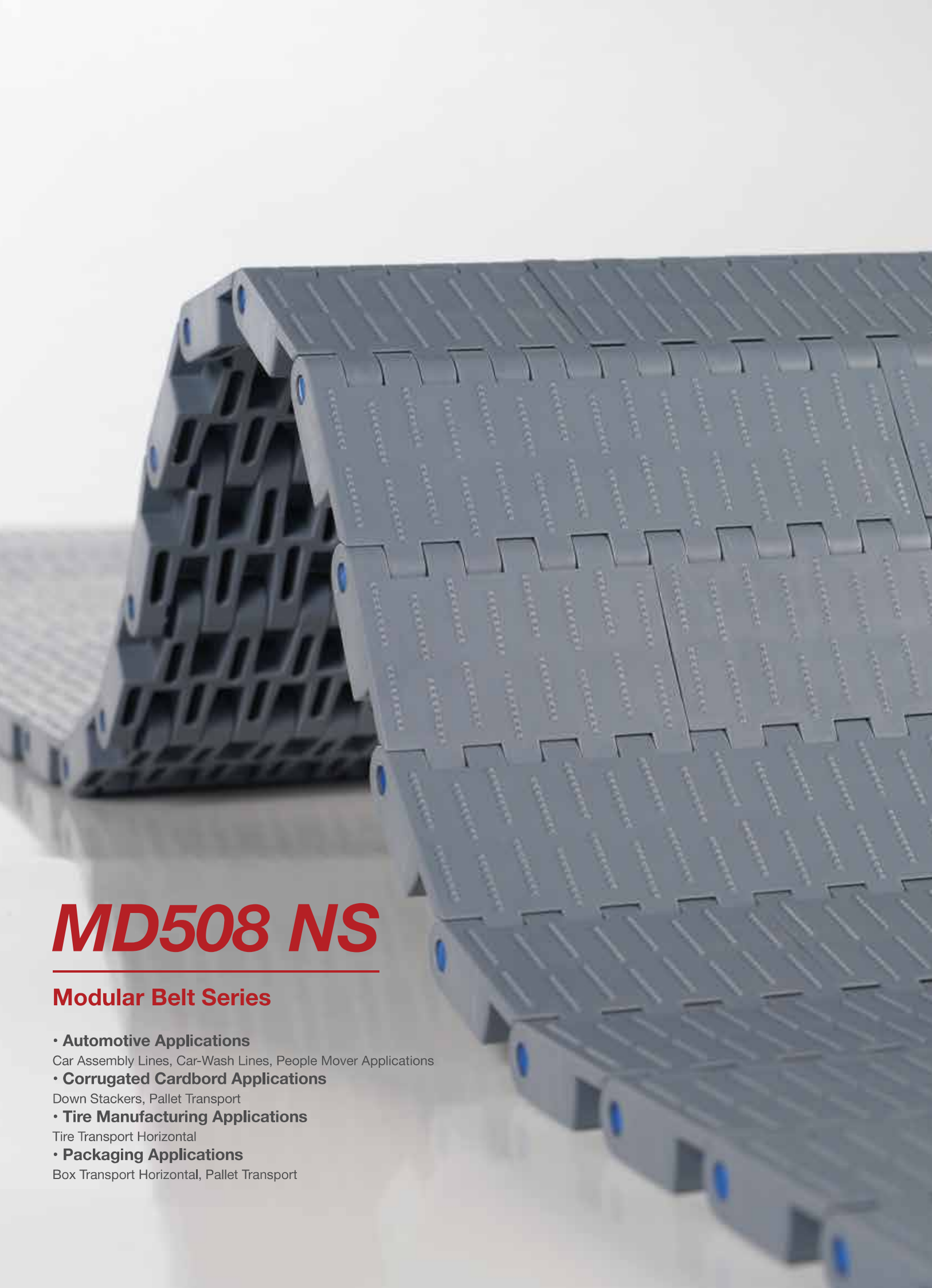


Product Features and Functional Benefits

- Open, Flush grid surface.
- High horizontal and vertical strength.
- High load capacity for wide and long conveyors.
- Bi-directional belt design.
- Suitability for many different applications.

Important Notes

- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



MD508 NS

Modular Belt Series

- **Automotive Applications**

Car Assembly Lines, Car-Wash Lines, People Mover Applications

- **Corrugated Cardbord Applications**

Down Stackers, Pallet Transport

- **Tire Manufacturing Applications**

Tire Transport Horizontal

- **Packaging Applications**

Box Transport Horizontal, Pallet Transport

MD508 NS



Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Non Slip Surface
Minimum Width:	150 mm / 5.90 inch
Open Area (%):	0%.
Flight:	Yes
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - Self Lock
Approved:	FDA and EU
Color:	Gray
Cleanability:	Good
Belt Thickness:	16,9 mm / 0.66 inch

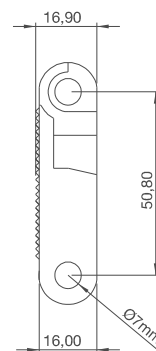
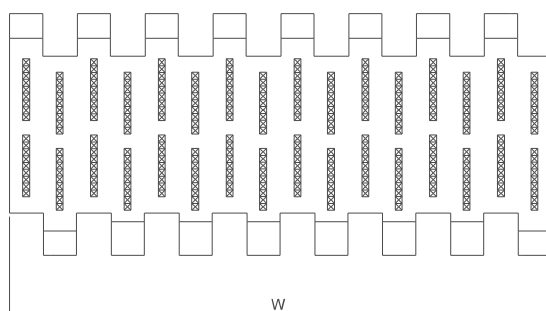


MD508 NS Technical Information

Belt Material		POM	POM	POM
Pin Material		PA	POM	PP
Belt Strength	N/m lb/ft	56000 - 3836	56000 - 3836	33000 - 2261
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	13,8 / 2.83	13,8 / 2.83	13,8 / 2.83

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	250	10

Belt Width mm	150,0	225,0	300,0	375,0	450,0	525,0	600,0	675,0	750,0	825,0	900,0	975,0	1050,0	1125,0	1200,0	1275,0	1350,0
Belt Width inch	5.91	8.86	11.81	14.76	17.72	20.67	23.62	26.57	29.53	32.48	35.43	38.39	41.34	44.29	47.24	50.20	53.15
Belt Width mm	1425,0	1500,0	1575,0	1650,0	1725,0												
Belt Width inch	56.10	59.06	62.01	64.96	67.91												



Product Features and Functional Benefits

- Unique non-slip surface designed for more friction.
- Reinforced bottom surface - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- Impact resistance to with stand heavy objects falling into the belt.

Important Notes

- Standard belt increments 75 mm.
- Non-standard belt increments 18,75 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- Up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

MD508 Series

Sprockets and Technical Specifications



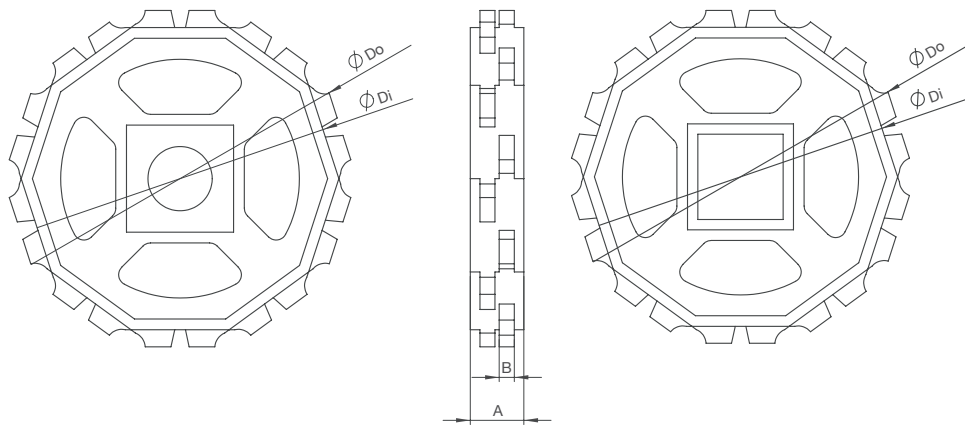
Z8



Z10



Z12



MD508 Series / Molded Sprocket Dimensions

NO.TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	107,4 / 4.23	127,4 / 5.01	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ8*POM	MD-TR508SRZ8*POM
Z10	141,3 / 5.56	160,4 / 6.31	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ10*POM	MD-TR508SRZ10*POM
Z12	174,7 / 6.87	193,27 / 7.61	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ12*POM	MD-TR508SRZ12*POM
Z16	240,9 / 9.48	258,7 / 10.18	40,00 / 1.57	7,00 / 0.27	60 & 90	-	-	-	MD-TR508SQZ16*POM	MD-TR508SRZ16*POM

*Other sprockets and hub sizes are manufactured on request..

*PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available on request.



Clamp



Machined Split Sprocket



Moulded Sprocket



Machined Sprocket

MD508 Series

Accessories and Technical Specifications

MD508 Series / Flight & Sidewall Dimensions

MD508 Series / Flights & Universal Sidewalls				
PRODUCT CODE	Flight Height (mm/ <i>inch</i>)	Flight Width (mm/ <i>inch</i>)	PRODUCT CODE	Sidewall Height (mm/ <i>inch</i>)
MD508T50	50 / 1.97	150 / 5.9	U508SW50	53 / 2.09
MD508T100	75 / 2.95	150 / 5.9	U508SW75	78 / 3.07
MD508T150	100 / 3.94	150 / 5.9	U508SW100	103 / 4.05



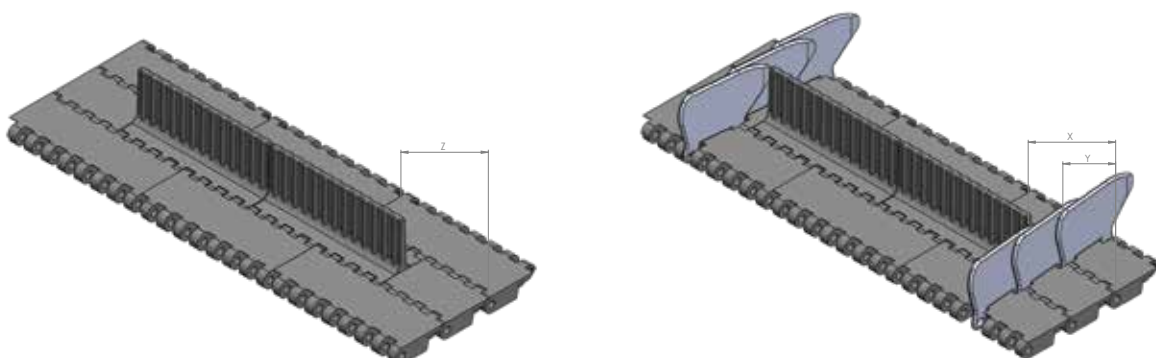
MD508 Series / Standard Installation of Flights and Sidewalls

Possible Sidewall and Flights Indents	Z		X (Max.)		Y (Min.)	
	mm	inch	mm	inch	mm	inch
Standard, module cutting	37,50	1.48	34,15	1.34	17,15	0.68
Standard, module cutting	56,25	2.21	52,90	2.08	35,90	1.41
Standard, module cutting	75,00	2.95	71,65	2.82	54,65	2.15
Standard, module cutting	112,50	4.43	109,15	4.30	92,15	3.63
Standard, module cutting	131,25	5.17	127,9	5.04	110,9	4.37

*X and Y dimensions may change depending on the sidewall height:

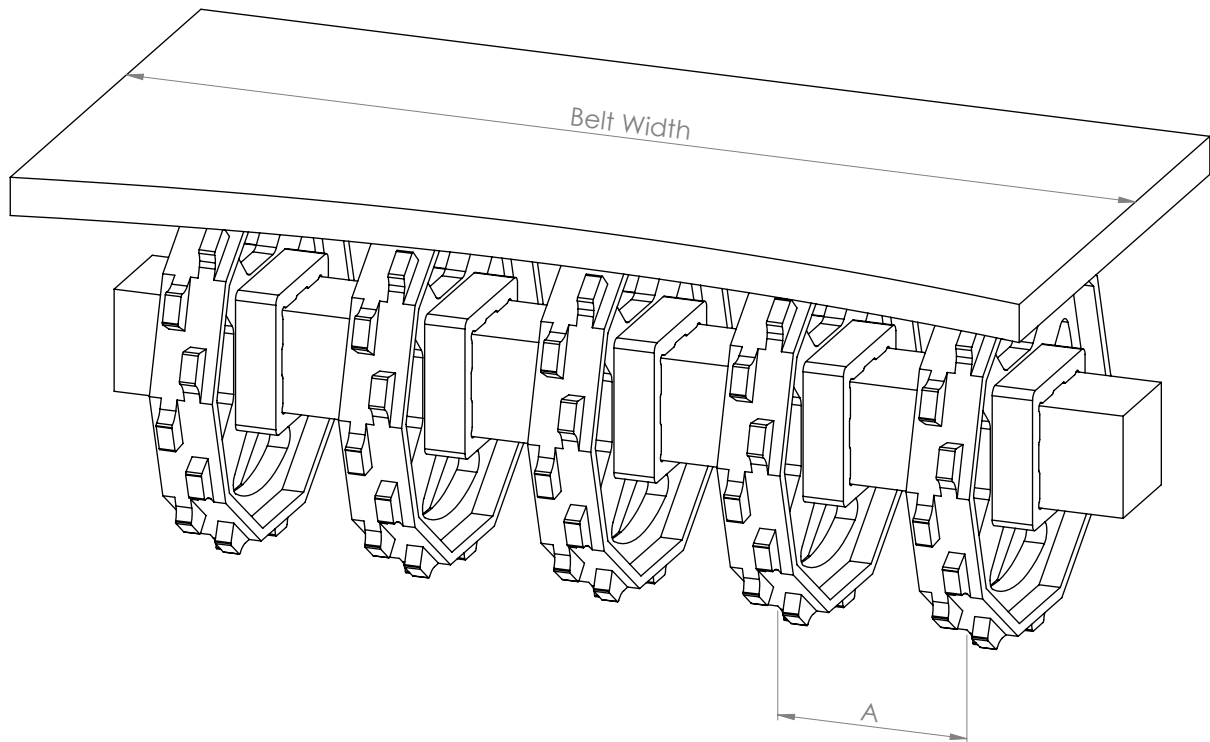
X (Max.) tolerance is -2 mm

Y (Min.) tolerance is +2 mm.



MD508 Series

Engineering Information



MD508 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
150	5.9	2	2	2	75 / 2.9	150 / 5.9
225	8.9	2	2	2	75 / 2.9	150 / 5.9
300	11.8	2	3	2	75 / 2.9	150 / 5.9
375	14.8	3	3	3	75 / 2.9	150 / 5.9
450	17.7	3	3	3	75 / 2.9	150 / 5.9
525	20.7	3	4	3	75 / 2.9	150 / 5.9
600	23.6	3	4	3	75 / 2.9	150 / 5.9
675	26.6	5	5	3	75 / 2.9	150 / 5.9
750	29.5	5	5	4	75 / 2.9	150 / 5.9
825	32.5	5	6	4	75 / 2.9	150 / 5.9
900	35.4	5	6	4	75 / 2.9	150 / 5.9
975	38.4	7	7	5	75 / 2.9	150 / 5.9
1050	41.3	7	7	5	75 / 2.9	150 / 5.9
1125	44.3	7	7	5	75 / 2.9	150 / 5.9
1200	47.2	7	8	5	75 / 2.9	150 / 5.9
1500	59.0	9	8	6	75 / 2.9	150 / 5.9
1800	70.9	11	9	6	75 / 2.9	150 / 5.9
2100	82.7	13	10	7	75 / 2.9	150 / 5.9
2400	94.5	15	11	9	75 / 2.9	150 / 5.9
2700	106.3	17	12	9	75 / 2.9	150 / 5.9
3000	118.1	19	13	10	75 / 2.9	150 / 5.9

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belts, central distance of sprockets recommended to be maximum 150mm (5.9").

*For wider belts, central distance of carryway & returnway wearstrips may change 250mm (9.8") to 300mm (11.8").





MODUTECH®

HP508

Modular Belt Series

HP508 RR

HP508 FG

HP508 C

Sprockets % Accessories

Engineering Information





Bezelye Konservesi

Enerji	Yakar	Toplam Yağ	Doymuş Yağ	Tuz
118 kcal	3,1 g	0,8 g	0,8 g	1,7 g
%0	%1	%1	%0	%22

GIDA SANAYİ A.Ş. ISO 9001
Kalite ve TS 22000 Gıda Güvenliği
Yönetim Sistemi Belgelerine sahiptir.

Gıda İşletmecisi Adı:

Gıda İşletmecisi Adresi:
Atatürk Mah. Fırgut Özal Bulvarı
No: 7 Ataşehir / İSTANBUL

Müşteri Hizmetleri Hattı:
444 10 44

ÜRETİCİ FIRMA ADI:
GIDA SANAYİ A.Ş.

ÜRETİCİ FIRMA ADRESİ:
Veritaş Koc. Cad. Totkavaklı Kasabası
Mustafakemalpaşa-Bursa

İşletme kayıt no: TR-15-K-000470

Net Ağırlık:
830g e

8 690635 060788



HP508 RR

Modular Belt Series

- **Bakery & Snack Foods Applications**

Cooling Line

- **Fruits and Vegetables Applications**

Palletizing - Depalletizing, Sterilization Conveyance

- **Automotive Applications**

Battery Filling

- **Tire Manufacturing Applications**

Dip Tank

- **Packaging Applications**

Accumulation, Palletizing - Depalletizing

- **Textile Applications**

Dyeing

- **Beverages and Bottling Applications**

Glass Palletizing - Depalletizing, Pasteurizers - Warmers, Accumulation Tables

- **Can Manufacturing Applications**

Accumulation Tables, Palletizing / Depalletizing



MODUTECH®
Movement Technologies

HP508 RR



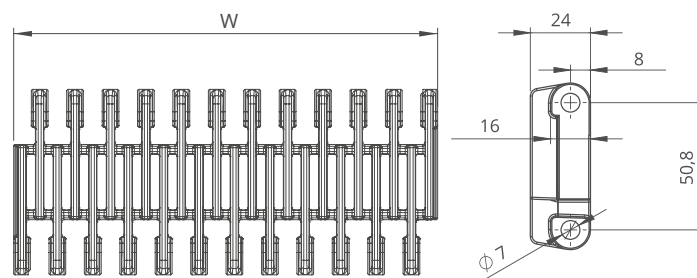
Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Raised Rib Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	36%. (Biggest opening 3,5 x 18,5 mm)
Flight:	No
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - End Locks
Approved:	FDA and EU
Color:	Gray
Cleanability:	Good
Belt Thickness:	24 mm / 0.945 inch

HP508 RR Technical Information

Belt Material		POM	PPH
Pin Material		POM	PPH
Belt Strength	N/m lb/ft	45500 - 3117	34200 - 2343
Temperature	°C °F	-40 / +93 -40 / +200	+5 / +118 -40 / +244
Belt Weight	kg/m² lb/sqft²	13.5 / 2.77	8.9 / 1.82

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2	1676,4													
Belt Width inch	57.00	60.00	63.00	66.00													



Product Features and Functional Benefits

- Less friction and product contact for easy cooking, cooling and freezing of products.
- Reduces back line pressure with up to 70%.
- Reduced dirt and oxide build up due to self cleaning surface.
- Finger plate for trouble free transfer.
- Unique sprocket engagement reduces pulsation and increases load capacity.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 38,1 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- For PPH material up to 750 mm (30") -2 mm to 1mm and -0.25% to 0.25% for wider belts.



HP508 FG

Battery Belt

Modular Belt Series

- **Bakery & Snack Foods Applications**

Cooling Line

- **Fruits and Vegetables Applications**

Palletizing - Epalletizing, Sterilization Conveyance

- **Automotive Applications**

Battery Filling

- **Tire Manufacturing Applications**

Dip Tank

- **Packaging Applications**

Accumulation, Palletizing - Depalletizing

- **Textile Applications**

Dyeing

- **Beverages and Bottling Applications**

Glass Palletizing - Depalletizing, Pasteurizers - Warmers, Accumulation Tables

- **Can Manufacturing Applications**

Accumulation Tables, Palletizing / Depalletizing



MODUTECH®
Movement Technologies

HP508 FG (Battery Belt)



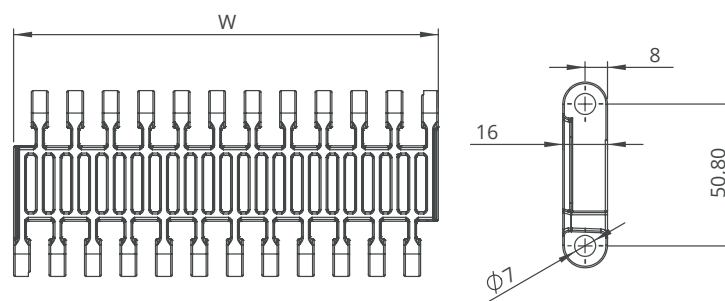
Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	36%. (Biggest opening 3,5 x 18,5 mm)
Flight:	No
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - End Locks
Approved:	FDA and EU
Color:	White / Gray
Cleanability:	Good
Belt Thickness:	16 mm / 0.630 inch

HP508 FG Technical Information

Belt Material		PP
Pin Material		PP
Belt Strength	N/m lb/ft	25000 - 1713
Temperature	°C °F	+5 / +105 +40 / +220
Belt Weight	kg/m² lb/sqft²	7.5 / 1.53

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2	1676,4													
Belt Width inch	57.00	60.00	63.00	66.00													



Product Features and Functional Benefits

- Belt provides optimal open area for drainage and airflow.
- Unique sprocket engagement reduces pulsation and increases load capacity.
- High power, bi-directional belt for long conveyors.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to withstand heavy objects falling on the belt.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 38,1 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.



HP508 C

Modular Belt Series

- **Snack Food Applications**

Potato Processing

- **Fruits and Vegetables Applications**

Bulk Feeding, Elevator, Control Sorting Table, Filling

- **Automotive Applications**

Chair Lift - Feeder

- **Packaging Applications**

Bulk Inclines, Box Transport Horizontal

HP508 C



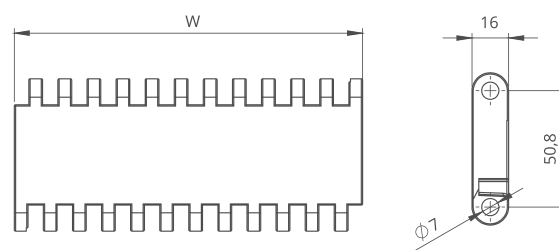
Pitch:	50,8 mm / 2 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / 6 inch
Open Area (%):	0%.
Flight:	No
Sidewall:	No
Pin:	Ø 7 mm / 0.275 inch - End Locks
Approved:	FDA and EU
Color:	Blue / White
Cleanability:	Good
Belt Thickness:	16 mm / 0.629 inch

HP508 C Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PP	POM
Belt Strength	N/m lb/ft	40000 - 2770	40000 - 2770	30000 - 2055	30000 - 2055
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	12.2 / 2.5	12.2 / 2.5	7.8 / 1.60	7.8 / 1.60

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	100	4	150	6	150	6	-	-

Belt Width mm	152,4	228,6	304,8	381,0	457,2	533,4	609,6	685,8	762,0	838,2	914,4	990,6	1066,8	1143,0	1219,2	1295,4	1371,6
Belt Width inch	6.00	9.00	12.00	15.00	18.00	21.00	24.00	27.00	30.00	33.00	36.00	39.00	42.00	45.00	48.00	51.00	54.00
Belt Width mm	1447,8	1524,0	1600,2	1676,4													
Belt Width inch	57.00	60.00	63.00	66.00													



Product Features and Functional Benefits

- Unique sprocket engagement reduces pulsation and increases load capacity.
- High power, bi-directional belt for long conveyors.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.
- Impact resistance to withstand heavy objects falling into the belt.
- Close transfer applications.

Important Notes

- Standard belt increments 76,2 mm.
- Non-standard belt increments 38,1 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available..
- For PP & POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

HP508 Series

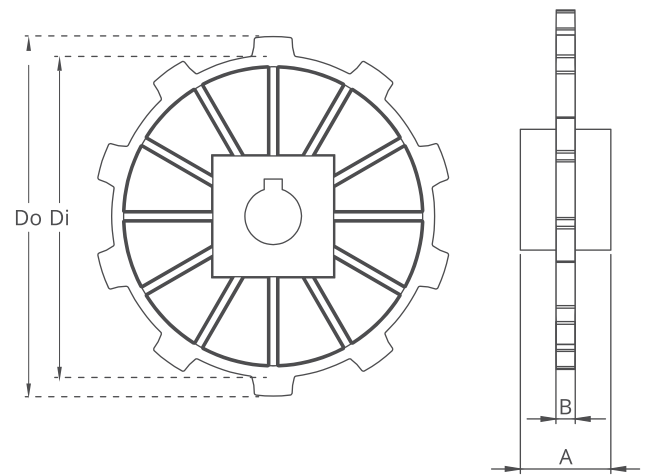
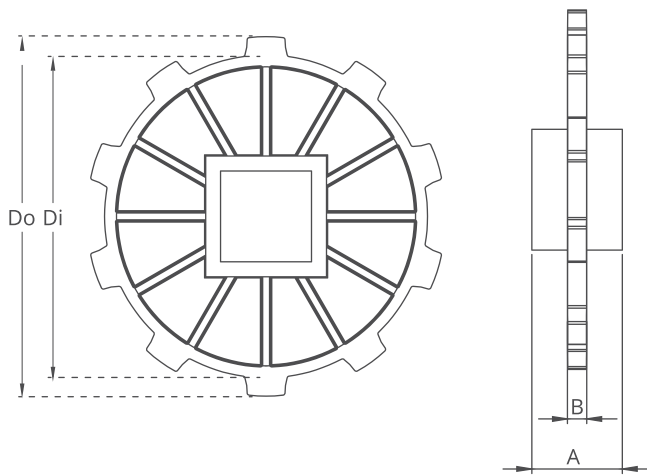
Accessories and Technical Specifications



Z8



Z10



HP508 Series / 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)
Z8	107,25 / 4.22	124,5 / 4.89	8,5 / 0.33	40,0 / 1.57	40	-	-	-	HP508SQZ8*PA	HP508SRZ8*PA
Z10	142,8 / 5.62	159,0 / 6.25	8,5 / 0.33	40,0 / 1.57	40	-	-	-	HP508SQZ10*PA	HP508SRZ10*PA
Z16	242,7 / 9.55	261,2 / 10.32	8,5 / 0.33	40,0 / 1.57	60-90	-	-	-	HP508SQZ16*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 available for each size.



Clamp



Machined Split Sprocket



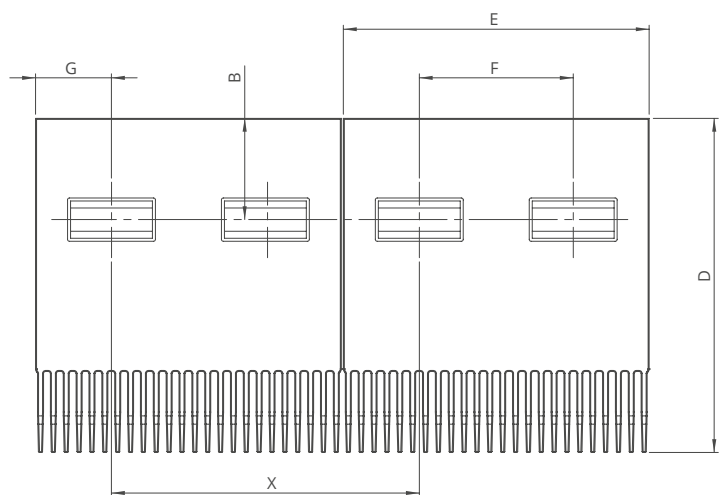
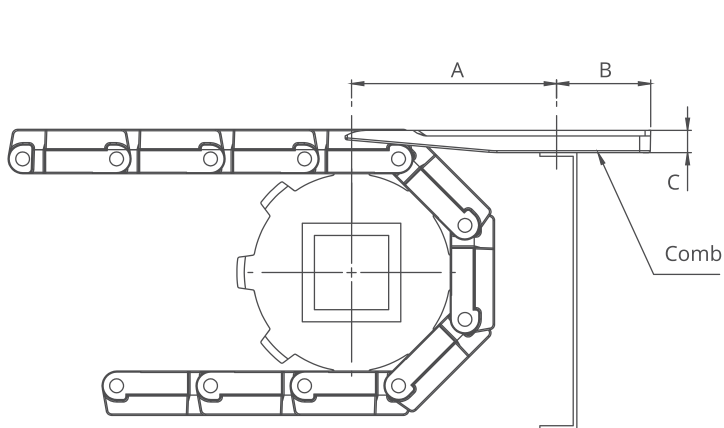
Moulded Sprocket



Machined Sprocket

HP508 Series

Accessories and Technical Specifications

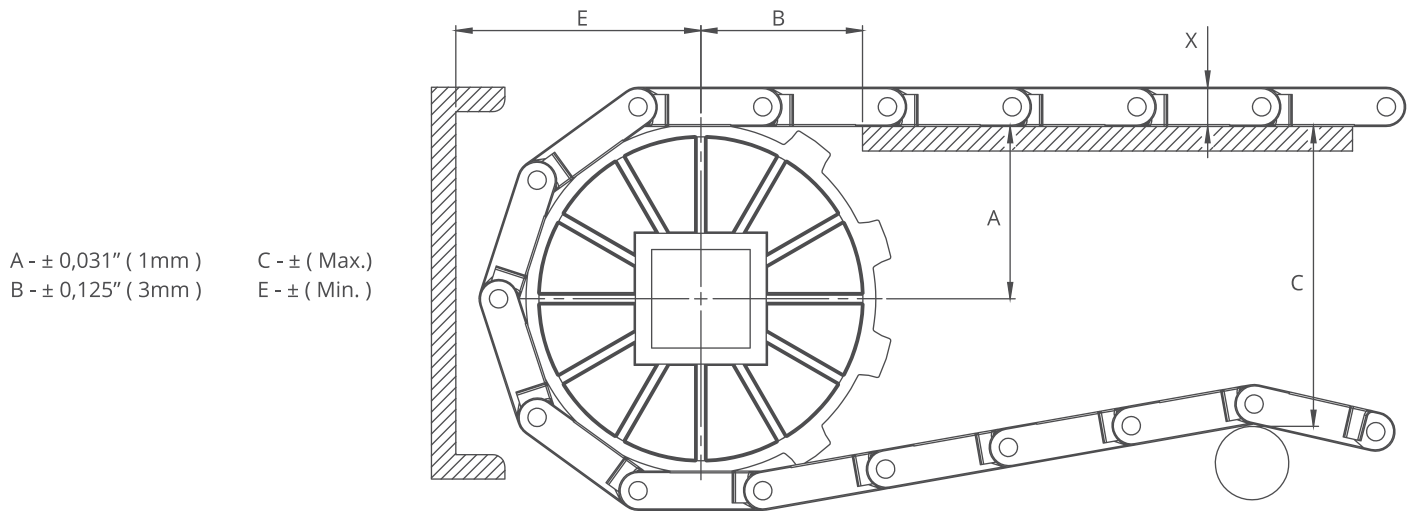


HP508 Series / Comb Technical Specifications

	inch	mm
A	3.94	100,0
B	1.97	50,0
C	0.47	12,0
D	6.50	165,0
E	5.94	151,0
F	2.99	76,0
G	1.48	37,5
X	5.98	152,0

HP508 Series

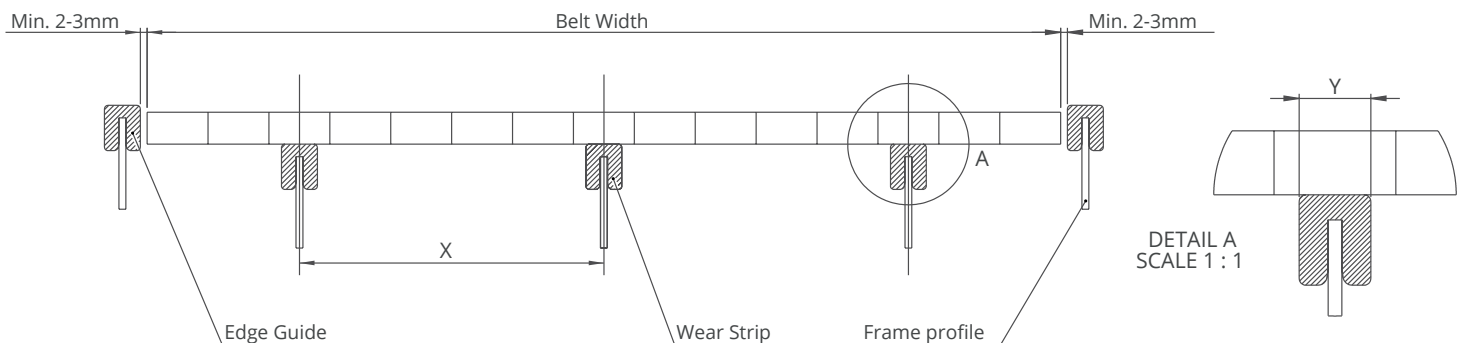
Engineering Information



HP508 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								
HP508 C, HP508 FG												
4.57	116,0	8	2.29	58,25	2.28	58,0	3.46	88,0	3.32	84,25	0.63	16,0
5.98	152,0	10	2.93	74,5	2.60	66,0	4.80	122,0	3.96	100,5	0.63	16,0
9.96	253,0	16	4.90	124,5	4.41	112,0	8.70	221,0	6.00	152,5	0.63	16,0
HP508 RR												
4.57	116,0	8	2.29	58,25	2.28	58,0	3.78	96,0	3.63	92,25	0.94	24,0
5.98	152,0	10	2.93	74,5	2.60	66,0	5.12	130,0	4.27	108,5	0.94	24,0
9.96	253,0	16	4.90	124,5	4.41	112,0	9.02	229,0	6.32	160,5	0.94	24,0

HP508 Series / Slider Support System For Straight Running Belts



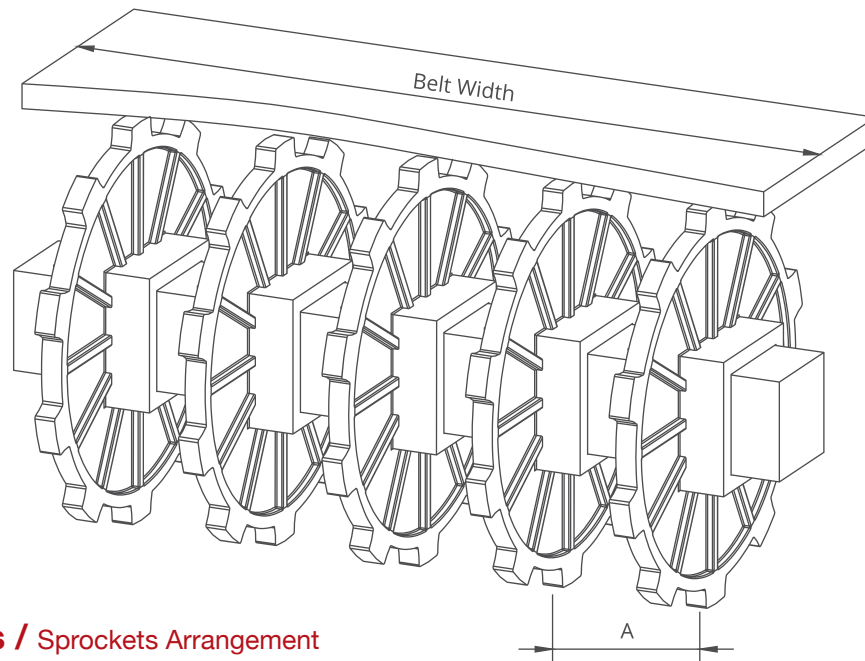
Note: The distances between the carryway wear strips (X) may be changed to due to operation conditions and transported load. In general, we recommend;

100-200mm for 2" belts
100-145mm for 1"belts
100-145mm for 0,5" belts
70-120mm for 0,3" belts

For specific applications, please contact with Modutech representatives.

HP508 Series

Engineering Information



HP508 Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
152,4	6.0	2	2	60/2.36	150/5.9
228,6	9.0	2	2	60/2.36	150/5.9
304,8	12.0	3	2	60/2.36	150/5.9
381,0	15.0	3	3	60/2.36	150/5.9
457,2	18.0	3	3	60/2.36	150/5.9
533,4	21.0	4	3	60/2.36	150/5.9
609,6	24.0	4	3	60/2.36	150/5.9
685,8	27.0	5	3	60/2.36	150/5.9
762,0	30.0	5	4	60/2.36	150/5.9
838,2	33.0	6	4	60/2.36	150/5.9
914,4	36.0	6	4	60/2.36	150/5.9
990,6	39.0	6	4	60/2.36	150/5.9
1066,8	42.0	7	5	60/2.36	150/5.9
1143,0	45.0	7	5	60/2.36	150/5.9
1219,2	48.0	8	6	60/2.36	150/5.9
1295,4	51.0	8	6	60/2.36	150/5.9
1371,6	54.0	9	6	60/2.36	150/5.9
1447,8	57.0	9	7	60/2.36	150/5.9
1524,0	60.0	9	7	60/2.36	150/5.9
1600,2	63.0	10	7	60/2.36	150/5.9
1676,4	66.0	10	8	60/2.36	150/5.9
1752,6	69.0	11	8	60/2.36	150/5.9
1828,8	72.0	12	9	60/2.36	150/5.9
1905,0	75.0	12	9	60/2.36	150/5.9
1981,2	78.0	12	9	60/2.36	150/5.9
2057,4	81.0	13	10	60/2.36	150/5.9
2133,6	84.0	14	10	60/2.36	150/5.9
2209,8	87.0	14	10	60/2.36	150/5.9
2286,0	90.0	15	11	60/2.36	150/5.9
2514,6	99.0	15	11	60/2.36	150/5.9
2743,2	108.0	16	12	60/2.36	150/5.9
2971,8	117.0	17	13	60/2.36	150/5.9
3200,4	126.0	18	14	60/2.36	150/5.9
3429,0	135.0	19	15	60/2.36	150/5.9
3657,6	144.0	20	16	60/2.36	150/5.9
3810,0	150.0	21	17	60/2.36	150/5.9

Note: Number of sprockets depends on the belt load.

HD635

Modular Belt Series

*HD635 C
Sprockets % Accessories
Engineering Information*







MODUTECH®
Movement Technologies

HD635 C

Pitch:	63,50 mm / 2.5 inch
Belt Surface:	Close, Smooth Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	0%
Flight:	No
Sidewall:	No
Pin:	Ø10 mm / 0.394 inch - Stainless Steel
Approved:	No
Color:	Black
Cleanability:	Good
Belt Thickness:	30 mm / 1.18 inch

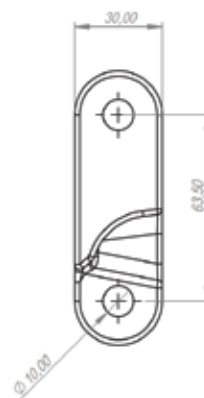
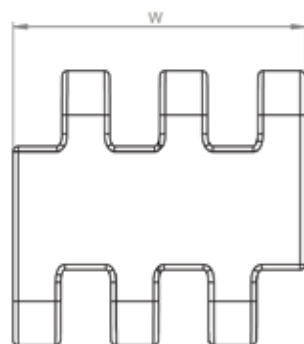


HD635 C Technical Information

Belt Material		POM-NL
Pin Material		SS
Belt Strength	N/m lb/ft	100000 - 6852
Temperature	°C °F	-40 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	35.4 / 7.24

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
100	3.94	100	3.94	200	7.87	-	-	-	-

Belt Width mm	100
Belt Width inch	3.94



Product Features and Functional Benefits

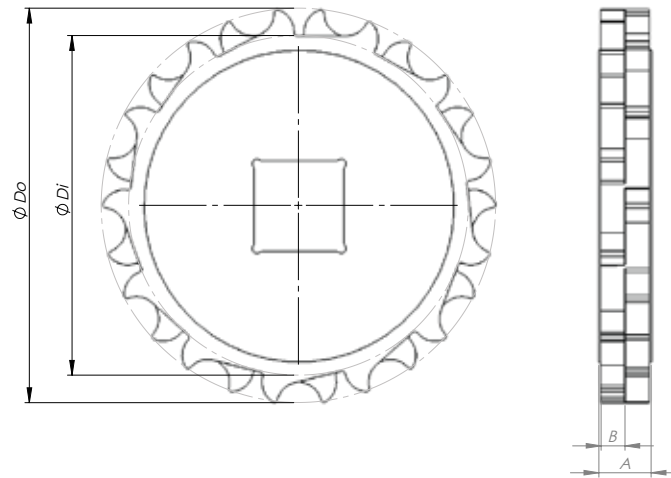
- Ideal for automotive, pallet handling, and heavy industrial applications.
- Easy maintenance with single-piece replacement.
- Modular belt design lighter than chain belts - reduces energy consumption.
- 63.5mm pitch ensures stable conveying performance.

Important Notes

- Standard belt width 100 mm.
- Special raw materials and additional colors available.
- Please contact with customer service for precise belt measurements.

HD635 Series

Sprockets and Technical Specifications



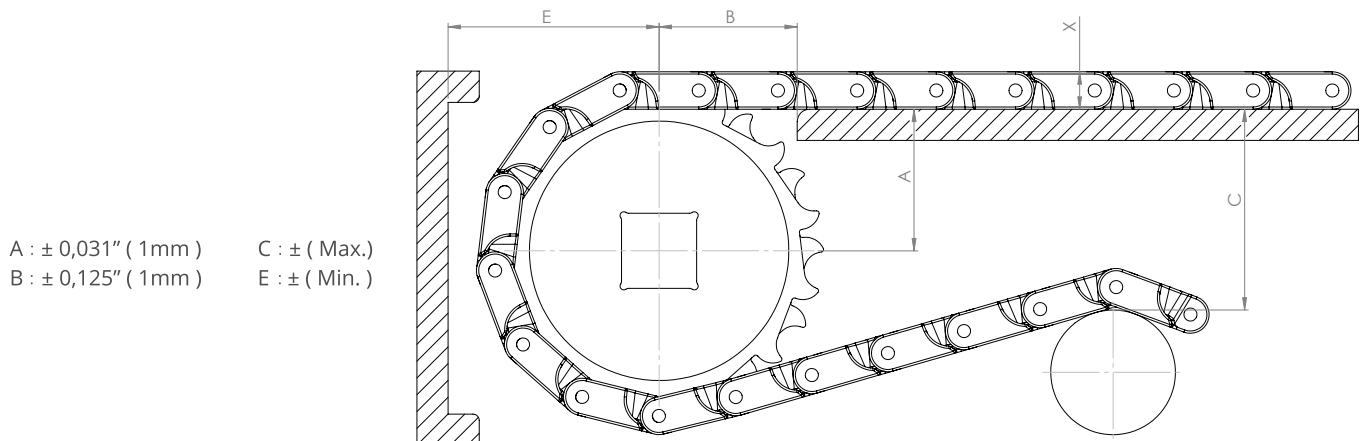
HD635 Series / Machined Sprockets Dimensions

NO. TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z10	166,61 / 6.56	203,87 / 8.03	35,0 / 1.38	16,0 / 0.63	40 to 90	1.5 to 3.0	30 to 60	1 to 2.5	HD635SQZ10*POM	HD635SRZ10*POM
Z13	227,11 / 8.94	263,76 / 10.38	35,0 / 1.38	16,0 / 0.63	40 to 90	1.5 to 3.0	30 to 60	1 to 2.5	HD635SQZ13*POM	HD635SRZ13*POM
Z15	268,84 / 10.58	305,24 / 12.02	35,0 / 1.38	16,0 / 0.63	40 to 120	1.5 to 3.0	30 to 90	1 to 2.5	HD635SQZ15*POM	HD635SRZ15*POM
Z20	370,07 / 14.57	406,14 / 15.99	35,0 / 1.38	16,0 / 0.63	40 to 120	1.5 to 3.0	30 to 90	1 to 2.5	HD635SQZ20*POM	HD635SRZ20*POM

*All required sprockets machined by CNC.

*Machined Split Sprockets are available.

*Other raw materials are available upon request.

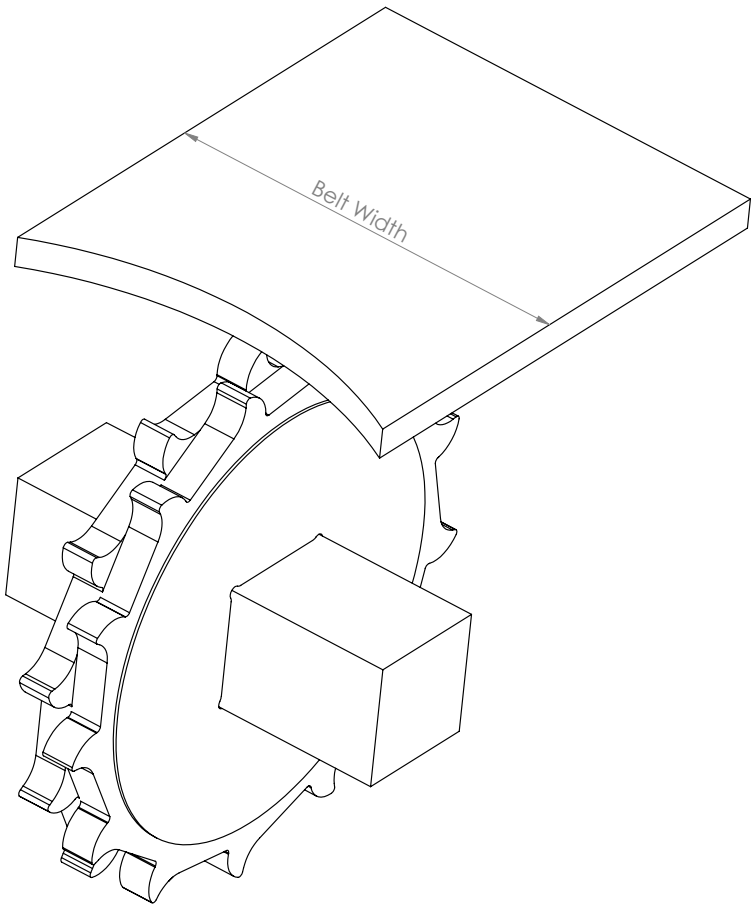


A : $\pm 0,031''$ (1mm)
B : $\pm 0,125''$ (1mm)

C : $\pm$ (Max.)
E : $\pm$ (Min.)

HD635 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								
HD635												
8.09	205,5	10	3.24	82,2	3.76	95,61	7.7	195,0	5.99	152,19	1.18	30,0
10.45	265,4	13	4.46	113,3	4.35	110,4	10.1	255,4	7.18	182,44	1.18	30,0
12.02	305,4	15	5.26	134,0	4.74	120,3	11.6	295,4	8.00	203,30	1.18	30,0
15.98	406,0	20	7.26	184,5	5.54	140,6	15.6	396,0	10.00	253,92	1.18	30,0



HD635 Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch	Minimum	Carryway	Returnway	Min.	Max.
100	4	1	2	2	/	/



1" Radius Belts

Modular Belt Series

EC254 R

EC254 R-GT / Friction Top

EC254T R

HC254 R

HC254 R-GT / Friction Top

HC254 R-LD

HC254 R-HID-LD

Sprockets & Accessories

Engineering Information

Radius Belt Calculation







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 Conveyance

- **Automotive Applications**

Car Part Manufacturing, Battery Filling

- **Packaging Applications**

Tray Packers, Box Transport Horizontal



MODUTECH®
Movement Technologies

EC254 R

Pitch:	25,8 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	36%. (Biggest opening 7,5 x 12 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White / Gray
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.1 - 2.4 (Please check page 197 to see Collapse Factors-Width Table)
Belt Thickness:	11 mm / 0.433 inch

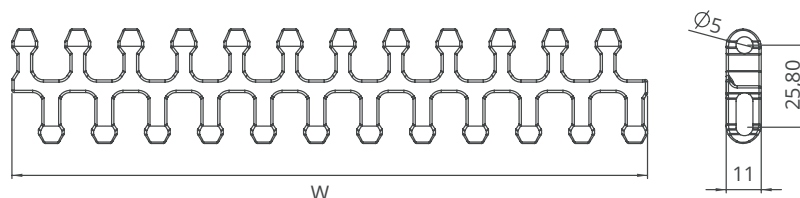


EC254 R Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength (Straight)	N/m lb/ft	27000 - 1850	27000 - 1850	19000 - 1300	19000 - 1300
Belt Strength (Curve)	N/m lb/ft	1500 - 338	1500 - 338	1000 - 225	1000 - 225
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	7.0 / 1.44	7.0 / 1.44	4.7 / 0.96	4.7 / 0.96

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0
Belt Width inch	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40	41.34
Belt Width mm	1050,0	1100,0	1150,0	1200,0													
Belt Width inch	41.34	43.31	45.28	47.24													

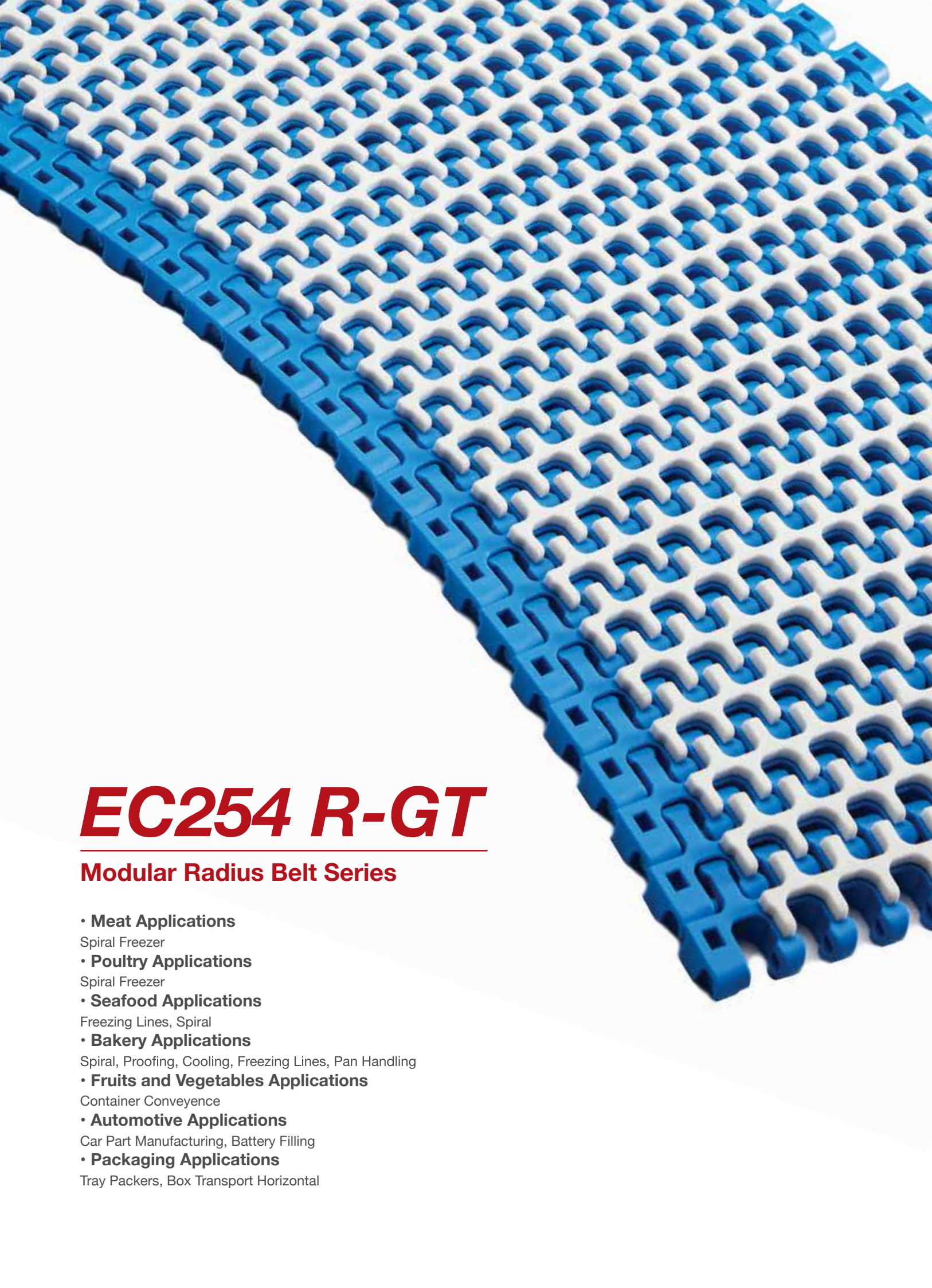


Product Features and Functional Benefits

- 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 airflow.

Important Notes

- **Standard belt increments 50 mm.**
- **Non-standard belt increments 16,6 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than **1200 mm (48")** are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally **0.1% to 0.3%** smaller.
- For PP & POM material up to **750 mm (30") -3 mm to 0mm** and **-0.4% to 0%** for wider belts.



EC254 R-GT

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 Conveyance

- **Automotive Applications**

Car Part Manufacturing, Battery Filling

- **Packaging Applications**

Tray Packers, Box Transport Horizontal



MODUTECH®
Movement Technologies

EC254 R-GT

Pitch:	25,8 mm / 1 inch
Belt Surface:	Open, Friction Top Surface
Minimum Width:	100 mm / 3.94 inch
Open Area (%):	36%. (Biggest opening 7,5 x 12 mm)
Flight:	Yes
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White / Gray
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.1 - 2.4 (Please check page 197 to see Collapse Factors-Width Table)
Belt Thickness:	15,5 mm / 0.61 inch

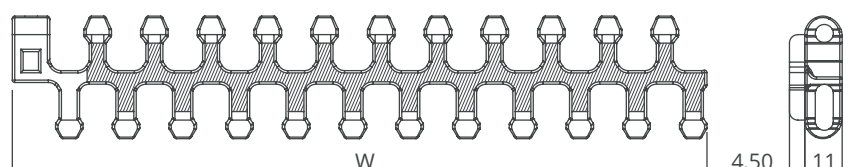


EC254 R-GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		POM	PA
Belt Strength (Straight)	N/m lb/ft	19000 - 1300	19000 - 1300
Belt Strength (Curve)	N/m lb/ft	1000 - 225	1000 - 225
Temperature	°C °F	+5 / +60 +40 / +140	+5 / +60 +40 / +140
Belt Weight	kg/m² lb/sqft²	6.4 / 1.31	6.4 / 1.31

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250	10

Belt Width mm	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0
Belt Width inch	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40	41.34
Belt Width mm	1050,0	1100,0	1150,0	1200,0													
Belt Width inch	41.34	43.31	45.28	47.24													



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 airflow.
- Unique rubber top eliminates wear and increases friction in incline-decline applications.

Important Notes

- **Standard belt increments 50 mm.**
- **Non-standard belt increments 16,6 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than **1200 mm (48")** are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally **0.1% to 0.3%** smaller.
- For PP & POM material up to **750 mm (30") -3 mm to 0mm** and **-0.4% to 0%** for wider belts.

EC254 R Series

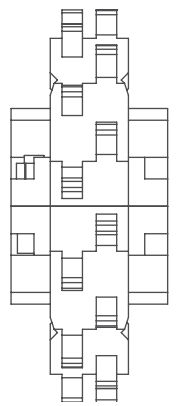
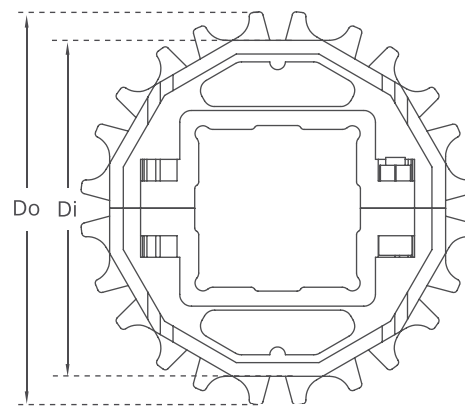
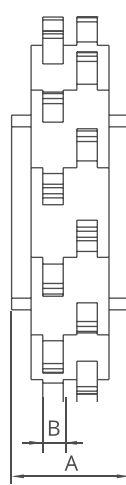
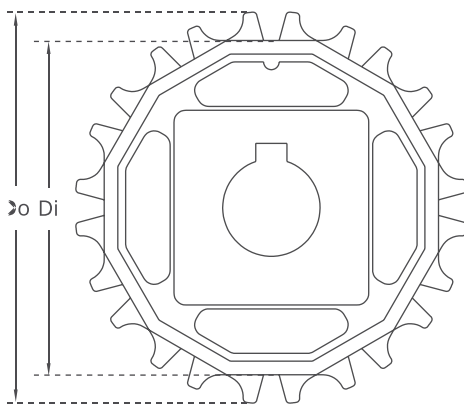
Sprockets and Technical Specifications



Z15



Z8



Split molded sprockets are available for the products with "Red" font color.

EC254 R Series / Standard 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)
Z8*	52,0 / 2.05	67,0 / 2.64	5,3 / 0.21	30,0 / 1.18	25	1	25	1	MD-TR254SQZ8*POM	MD-TR254SRZ8*POM
Z10*	69,0 / 2.72	84,0 / 3.31	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ10*POM	MD-TR254SRZ10*POM
Z12*	85,8 / 3.38	100,8 / 3.97	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30-35	1-1.25	MD-TR254SQZ12*POM	MD-TR254SRZ12*POM
Z15*	110,8 / 4.36	125,8 / 4.95	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ15*POM	MD-TR254SRZ15*POM
Z16	119,1 / 4.69	134,1 / 5.28	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ16*POM	MD-TR254SRZ16*POM
Z18*	135,6 / 5.34	150,6 / 5.93	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30-35	1-1.25	MD-TR254SQZ18*POM	MD-TR254SRZ18*POM
Z20	152,0 / 5.98	167,1 / 6.58	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ20*POM	MD-TR254SRZ20*POM

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

*PA (Polyamide) and PP (Polypropylene) sprockets raw material is available on request.

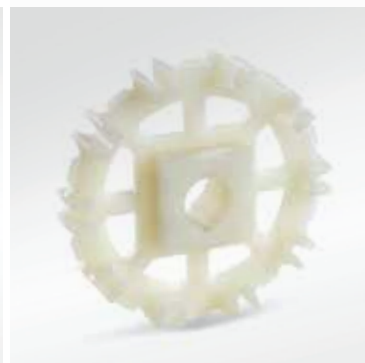
*Machined Split Sprockets are available for each size.



Clamp



Machined Split Sprocket



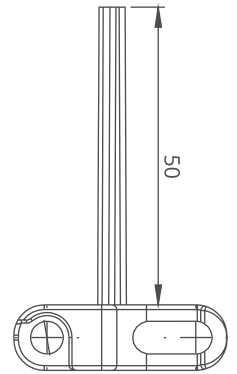
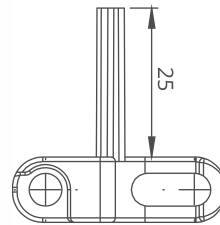
Moulded Sprocket



Machined Sprocket

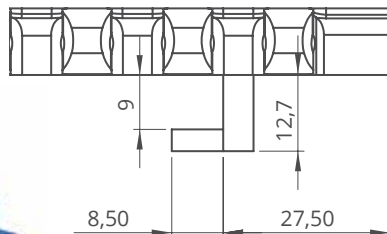
EC254 R Series

Accessories and Technical Specifications

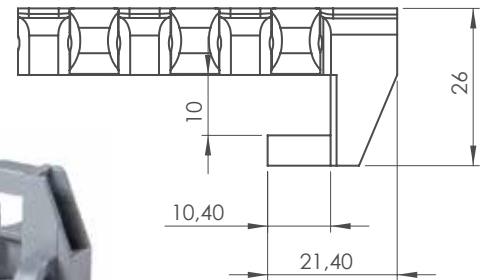


EC254 R Series / TAB - Technical Specification

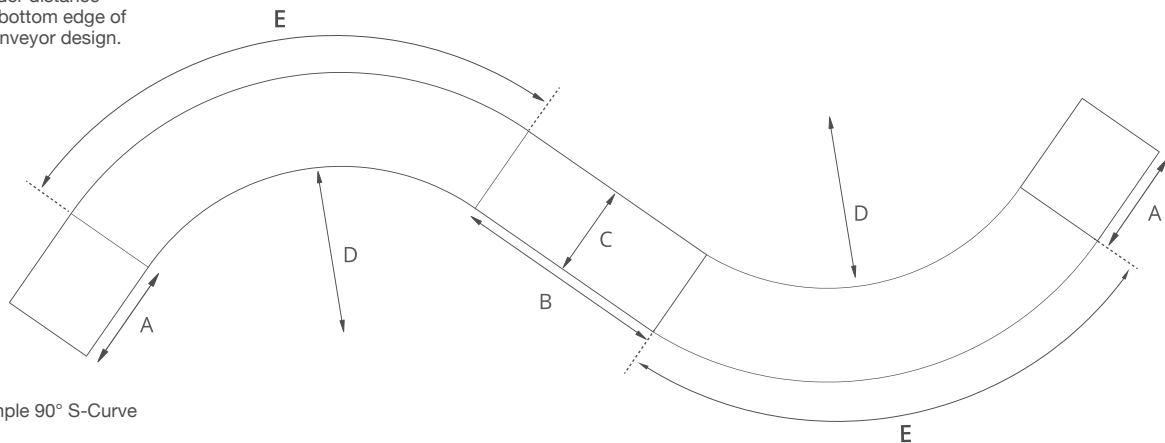
TAB-M



TAB-E



Note: Please consider distance between shaft and bottom edge of TABS during the conveyor design.



Radius Belt Example 90° S-Curve

EC254 R Series / Radius Belt Calculation

- A:** Straight run pull and $n = \min. 1,5 \times \text{belt width}$ recommended
- B:** Straight run between 2 curves = $\min. 2 \times \text{belt width}$
- 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: 400 mm 90° Radius Belt
Collapse Factor: 2.14

$$\text{D: } 400 \times 2.14 = 856 \text{ mm}$$

$$\text{A: } 400 \text{ (Min.)}$$

$$\text{B: } 2 \times 400 = 800 \text{ mm (Min.)}$$

$$\text{E: } \frac{2 \times (C + D) \times 3.14}{4} = 1972 \text{ mm}$$

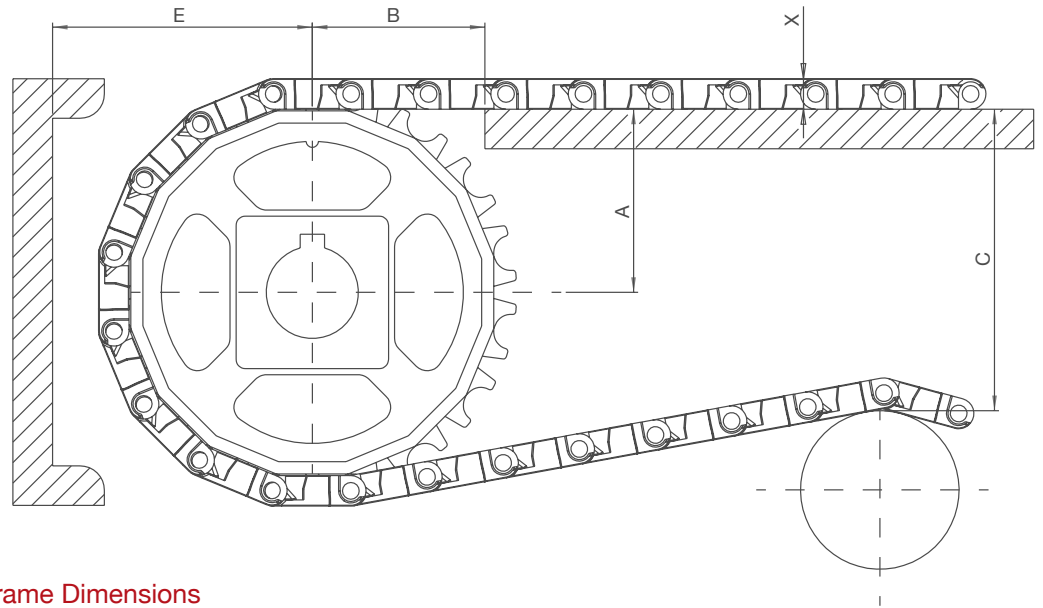
$$\text{Total length} = (2 \times A) + B + (2 \times E)$$

EC254 R Series

Engineering Information

A - $\pm 0,031"$ (1mm)
B - $\pm 0,125"$ (3mm)

C - $\pm$ (Max.)
E - $\pm$ (Min.)



EC254 R 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								
EC254 R												
2.38	60,5	8	1.15	29,2	1.55	39,4	1.95	49,5	1.94	49,2	0.43	11,0
3.07	78,0	10	1.46	37,1	1.77	45,0	2.60	66,1	2.25	57,1	0.43	11,0
3.74	95,0	12	1.76	44,8	1.97	50,1	3.24	82,3	2.55	64,8	0.43	11,0
4.70	119,5	15	2.22	56,4	2.23	56,7	4.18	106,1	3.01	76,4	0.43	11,0
5.02	127,5	16	2.37	60,2	2.38	60,5	4.46	113,2	3.21	81,5	0.43	11,0
5.71	145,0	18	2.73	69,3	2.45	62,3	5.19	131,8	3.51	89,3	0.43	11,0
6.46	164,0	20	3.03	77,0	2.64	67,0	5.82	148,0	3.86	98,0	0.43	11,0
EC254 R-GT												
2.38	60,5	8	1.15	29,2	1.55	39,4	1.95	49,5	2.18	53,7	0.61	15,5
3.07	78,0	10	1.46	37,1	1.77	45,0	2.60	66,1	2.48	61,6	0.61	15,5
3.74	95,0	12	1.76	44,8	1.97	50,1	3.24	82,3	2.79	69,3	0.61	15,5
4.70	119,5	15	2.22	56,4	2.23	56,7	4.18	106,1	3.25	80,9	0.61	15,5
5.02	127,5	16	2.37	60,2	2.38	60,5	4.46	113,2	3.46	86,0	0.61	15,5
5.71	145,0	18	2.73	69,3	2.45	62,3	5.19	131,8	3.76	93,8	0.61	15,5
6.46	164,0	20	3.03	77,0	2.64	67,0	5.82	148,0	4.02	102,5	0.61	15,5



EC254 R Series / Sidewall Technical Specifications

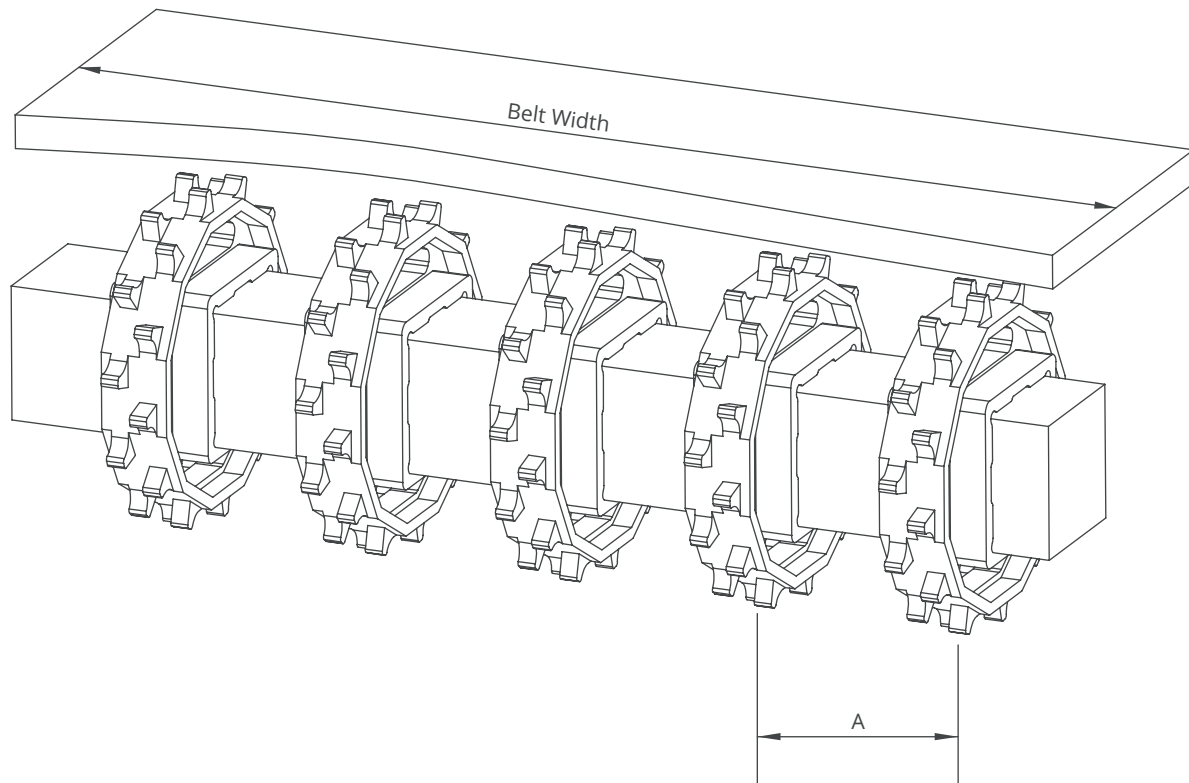
Possible Sidewall Indents	-	
	mm	inch
Standard, no module cutting	-	-

EC254 R Series / Flight Technical Specifications

Possible Flight Indents for EC254 R Series	Z	
	mm	inch
Standard, no module cutting	25,0	0.98
Standard, module cutting	37,5	1.48
Standard, module cutting	54,3	2.14

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.
200,0	7.9	2	2	50/2	120/4.7
250,0	9.8	3	2	50/2	120/4.7
300,0	11.8	3	2	50/2	120/4.7
350,0	13.8	3	3	50/2	120/4.7
400,0	15.7	4	3	50/2	120/4.7
450,0	17.7	4	3	50/2	120/4.7
500,0	19.7	5	4	50/2	120/4.7
550,0	21.7	5	4	50/2	120/4.7
600,0	23.6	6	5	50/2	120/4.7
700,0	27.6	7	5	50/2	120/4.7
800,0	31.5	8	6	50/2	120/4.7
900,0	35.4	9	7	50/2	120/4.7
1000,0	39.4	10	7	50/2	120/4.7
1100,0	43.3	10	8	50/2	120/4.7
1200,0	47.2	10	8	50/2	120/4.7

Note: Number of sprockets depends on the belt load.

EC254 R Series / Collapse Factors per widths for EC254 R Series

Nom. Belt Width (mm)	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0	1050,0	1100,0	1150,0	1200,0
Nom. Belt Width (inch)	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0
Collapse Factor	2,07	2,10	2,12	2,14	2,15	2,16	2,17	2,18	2,18	2,19	2,19	2,19	2,20	2,20	2,20	2,21	2,21	2,21	2,21	2,21
Min. Inner Radius (mm)	517,5	630,0	742,0	856,0	967,5	1080,0	1193,5	1308,0	1417,0	1533,0	1642,5	1752,0	1870,0	1980,0	2090,0	2210,0	2320,5	2431,0	2541,5	2652,0
Min. Inner Radius (inch)	20.7	25.2	29.7	34.2	38.7	43.2	47.7	52.3	56.7	61.3	65.7	70.8	74.8	79.2	83.6	88.4	92.8	97.2	101.7	106.1

Standard range of belt width and collapse factor (Min. Inner radius = Collapse factor x Standard belt width)



EC254T R

Tight Radius

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

- **Postal Applications**

Parcel Handling



MODUTECH®
Movement Technologies

EC254T R (Tight Radius)

Pitch:	26 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	167 mm / 6.57 inch
Open Area (%):	38%. (Biggest opening 6.5 x 12 mm)
Flight:	No
Sidewall:	Yes
Pin:	Ø5 mm / 0.197 inch - Self Lock
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White / Gray
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	1.4 - 1.6 (Please check page 203 to see Collapse Factors-Width Table)
Belt Thickness:	13 mm / 0.512 inch

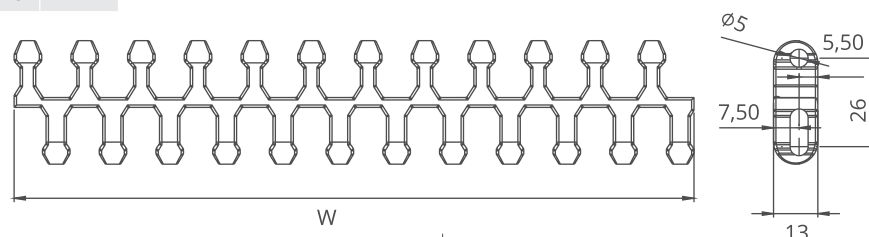


EC254T R Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength (Straight)	N/m lb/ft	20000 - 1370	20000 - 1370	14000 - 959	14000 - 959
Belt Strength (Curve)	N/m lb/ft	1100 - 247	1100 - 247	600 - 135	600 - 135
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	8.4 / 1.72	8.4 / 1.72	5.8 / 1.19	5.8 / 1.19

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width mm	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0	1050,0
Belt Width inch	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40	39.37	41.34
Belt Width mm	1100,0	1150,0	1200,0														
Belt Width inch	43.31	45.28	47.24														



Product Features and Functional Benefits

- Belt designed for tight radius applications.
- 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 airflow.

Important Notes

- **Standard belt increments 50 mm.**
- **Non-standard belt increments 16,6 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than **1200 mm (48")** are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally **0.1% to 0.3%** smaller.
- For PP material up to **750 mm (30") -3 mm to 0mm** and **-0.4% to 0%** for wider belts.
- For POM material up to **750 mm (30") -4 mm to -1mm** and **-0.5%** to **-0.2%** for wider belts.

EC254T R Series

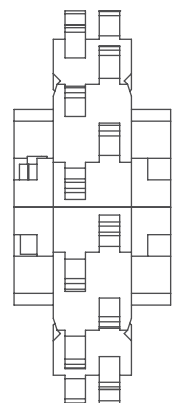
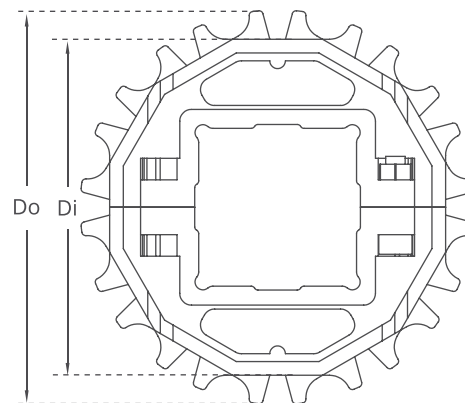
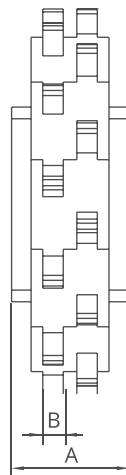
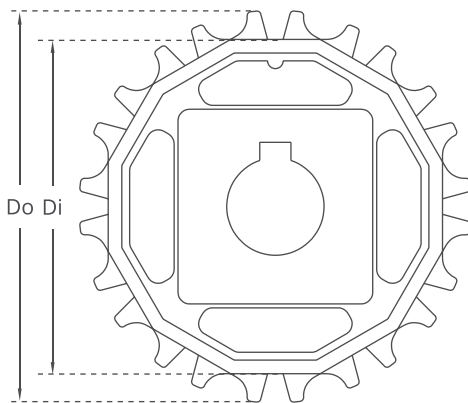
Sprockets and Technical Specifications



Z15



Z8



Split molded sprockets are available for the products with "Red" font color.

EC254T R Series / Standard 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)
Z8*	52,0 / 2.05	67,0 / 2.64	5,3 / 0.21	30,0 / 1.18	25	1	25	1	MD-TR254SQZ8*POM	MD-TR254SRZ8*POM
Z10*	69,0 / 2.72	84,0 / 3.31	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ10*POM	MD-TR254SRZ10*POM
Z12*	85,8 / 3.38	100,8 / 3.97	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30-35	1-1.25	MD-TR254SQZ12*POM	MD-TR254SRZ12*POM
Z15*	110,8 / 4.36	125,8 / 4.95	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ15*POM	MD-TR254SRZ15*POM
Z16	119,1 / 4.69	134,1 / 5.28	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ16*POM	MD-TR254SRZ16*POM
Z18*	135,6 / 5.34	150,6 / 5.93	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30-35	1-1.25	MD-TR254SQZ18*POM	MD-TR254SRZ18*POM
Z20	152,0 / 5.98	167,1 / 6.58	5,3 / 0.21	30,0 / 1.18	40	1.5	25-30	1-1.25	MD-TR254SQZ20*POM	MD-TR254SRZ20*POM

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

*Machined Split Sprockets are available for each size.



Clamp



Machined Split Sprocket



Moulded Sprocket

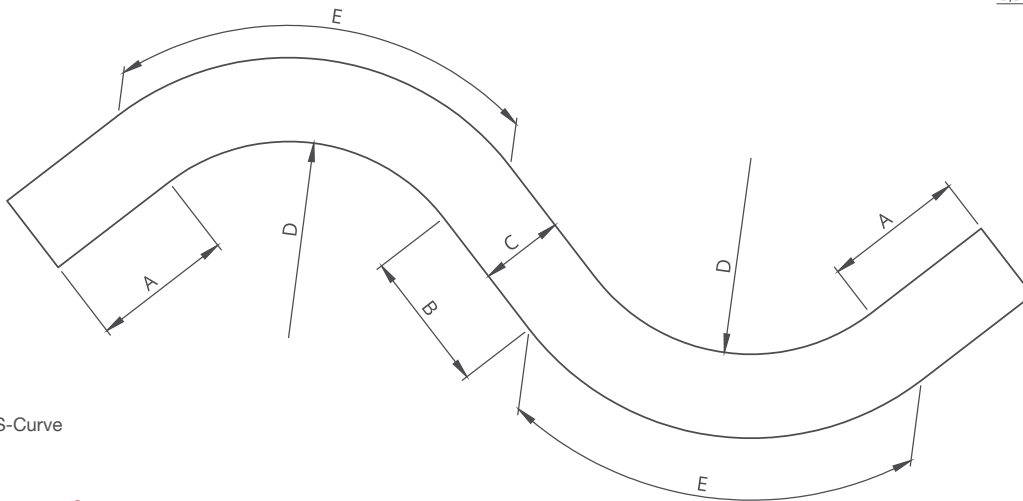
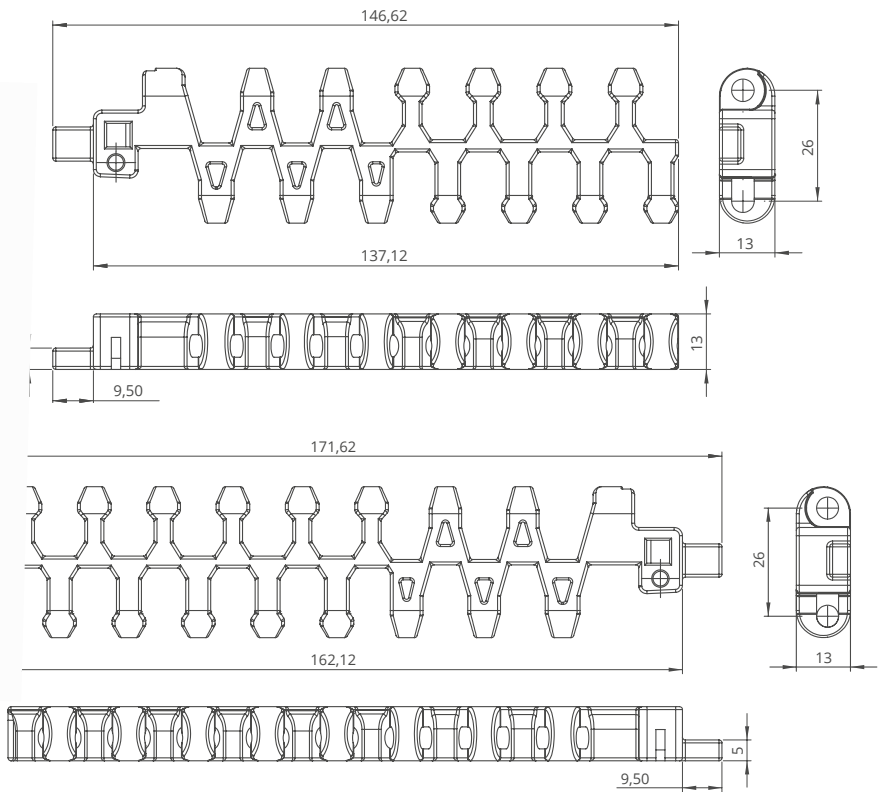


Machined Sprocket

EC254T R Series

Accessories and Technical Specifications

EC254T R Series / TAB - Technical Specification



Radius Belt Example 90° S-Curve

EC254T R Series / Radius Belt Calculation

- A:** Straight run pull and $n = \text{min. } 1,5 \times \text{belt width recommended}$
- 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: 500 mm Radius Belt

Collapse Factor: 1.55

D: $500 \text{ mm} \times 1.55 = 775 \text{ mm}$

A: 500 mm

B: $2 \times 500 \text{ mm} = 1000 \text{ mm (min.)}$

E: $\frac{2 \times (C+D) \times 3.14}{4} = 2016 \text{ mm}$

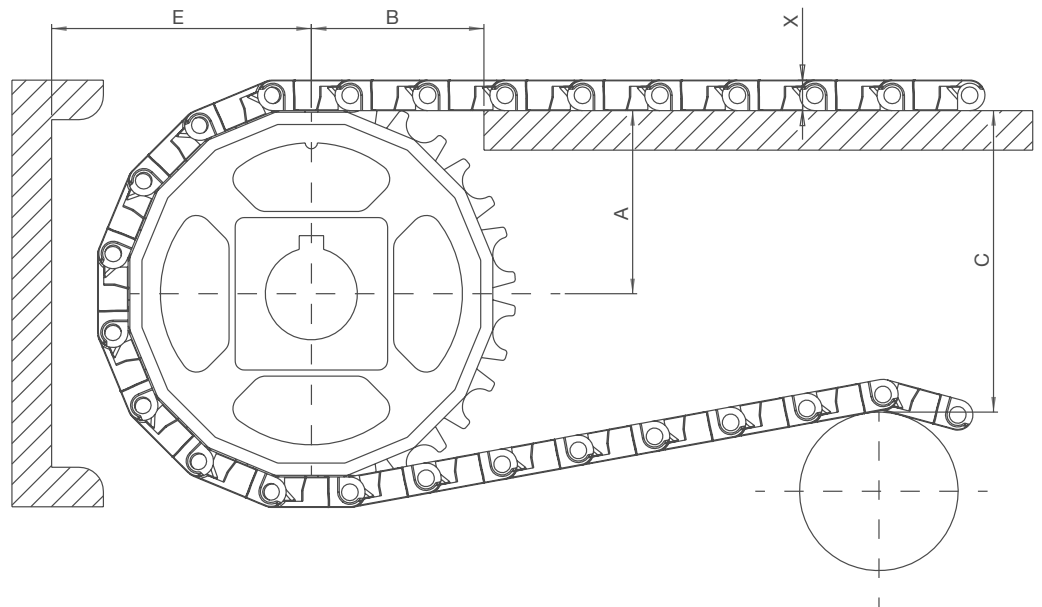
Total length = $(2 \times A) + B + (2 \times E)$

EC254T R Series

Engineering Information

A - $\pm 0,031"$ (1mm)
B - $\pm 0,125"$ (3mm)

C - $\pm$ (Max.)
E - $\pm$ (Min.)



EC254T R 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								
EC254T R												
2.38	60,5	8	1.15	29,2	1.55	39,4	1.95	49,5	1.94	49,2	0.51	13,0
3.07	78,0	10	1.46	37,1	1.77	45,0	2.60	66,1	2.25	57,1	0.51	13,0
3.74	95,0	12	1.76	44,8	1.97	50,1	3.24	82,3	2.55	64,8	0.51	13,0
4.70	119,5	15	2.22	56,4	2.23	56,7	4.18	106,1	3.01	76,4	0.51	13,0
5.02	127,5	16	2.37	60,2	2.38	60,5	4.46	113,2	3.21	81,5	0.51	13,0
5.71	145,0	18	2.73	69,3	2.45	62,3	5.19	131,8	3.51	89,3	0.51	13,0
6.46	164,0	20	3.03	77,0	2.64	67,0	5.82	148,0	3.86	98,0	0.51	13,0

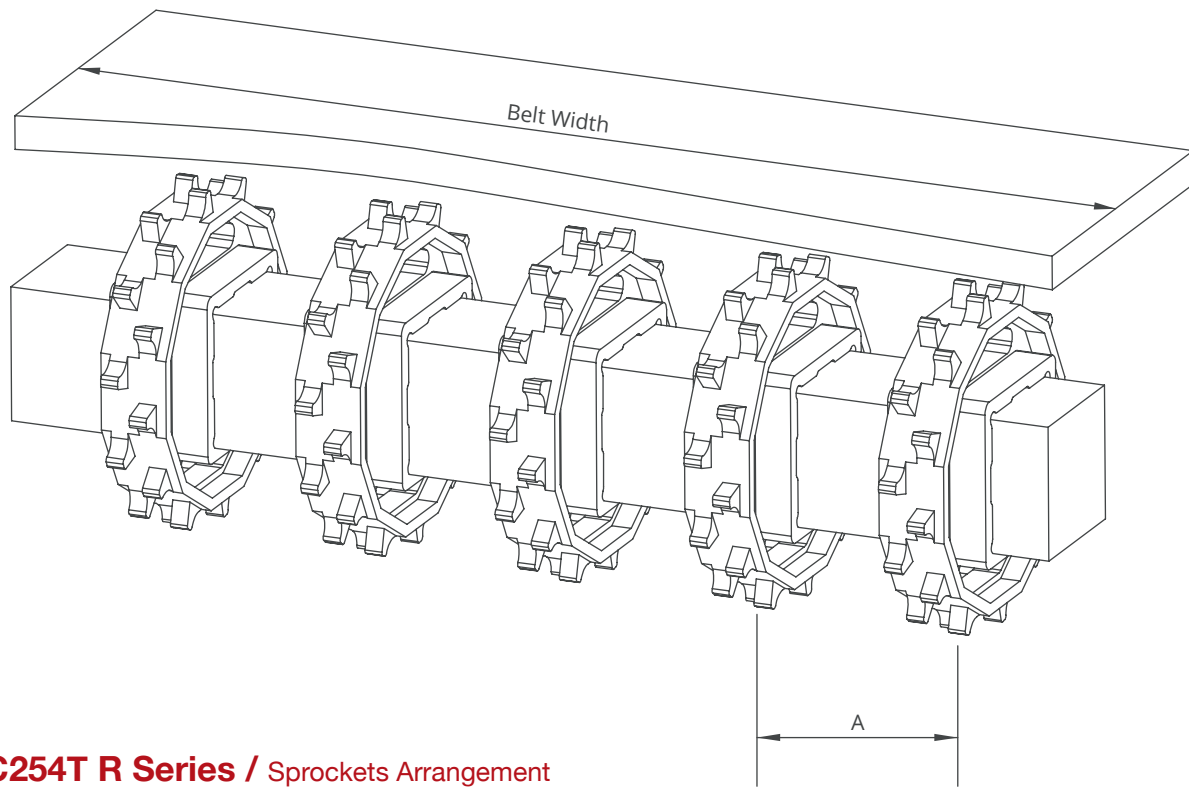


EC254T R Series / Sidewall Technical Specifications

Possible Sidewall Indents	-	
	mm	inch
Standard, no module cutting	-	-

EC254T R Series

Engineering Information



EC254T R Series / Sprockets Arrangement

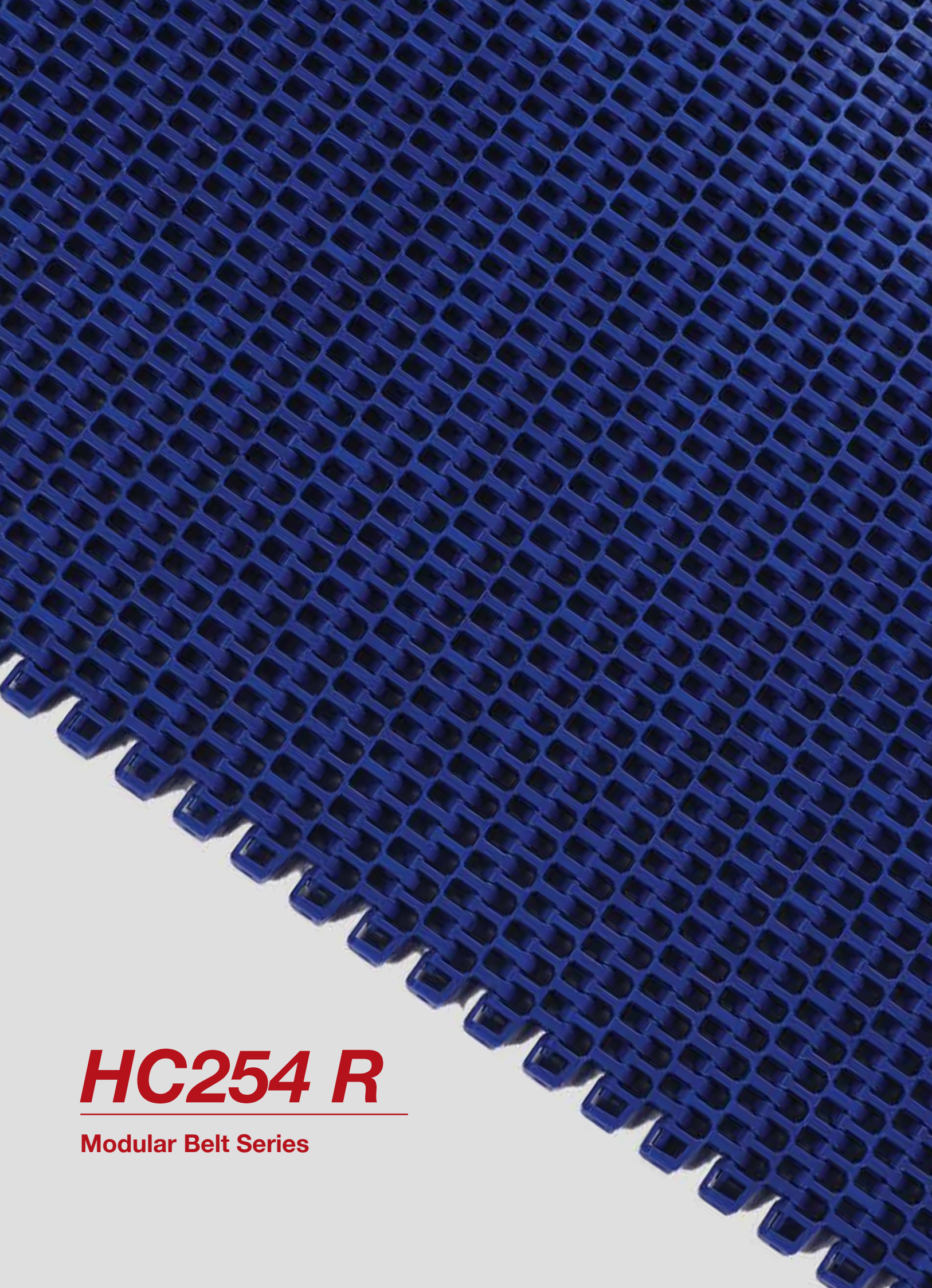
Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
200,0	7.9	2	2	50/2	120/4.7
250,0	9.8	3	2	50/2	120/4.7
300,0	11.8	3	2	50/2	120/4.7
350,0	13.8	3	3	50/2	120/4.7
400,0	15.7	4	3	50/2	120/4.7
450,0	17.7	4	3	50/2	120/4.7
500,0	19.7	5	4	50/2	120/4.7
550,0	21.7	5	4	50/2	120/4.7
600,0	23.6	6	5	50/2	120/4.7
700,0	27.6	7	5	50/2	120/4.7
800,0	31.5	8	6	50/2	120/4.7
900,0	35.4	9	7	50/2	120/4.7
1000,0	39.4	10	7	50/2	120/4.7
1100,0	43.3	10	8	50/2	120/4.7
1200,0	47.2	10	8	50/2	120/4.7

Note: Number of sprockets depends on the belt load.

EC254T R Series / Collapse Factors per width for EC254T R Series

Nom. Belt Width (mm)	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0	1050,0	1100,0	1150,0	1200,0
Nom. Belt Width (inch)	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0
Collapse Factor	1,43	1,47	1,50	1,52	1,54	1,55	1,56	1,57	1,58	1,58	1,59	1,61	1,62	1,63	1,64	1,65	1,66	1,66	1,70	1,71
Min. Inner Radius (mm)	357,5	441,0	525,0	608,0	693,0	775,0	858,0	942,0	1027,0	1106,0	1192,5	1288,0	1377,0	1467,0	1558,0	1650,0	1743,0	1826,0	1955,0	2052,0
Min. Inner Radius (inch)	14.3	17.6	21.0	24.3	27.7	31.0	34.3	37.7	41.1	44.2	47.7	51.5	55.1	58.7	62.3	66.0	69.7	73.0	78.2	82.1

Standard range of belt width and collapse factor (Min. Inner radius = Collapse factor x Standard belt width)



HC254 R

Modular Belt Series



MODUTECH®
Movement Technologies

HC254 R

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	203,2 mm / 8 inch
Open Area (%):	42%. (Biggest opening 8,30 x 4,70 mm)
Product Contact Area (%):	25%
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.22 (Please check HC254R Collapse Factors-Width Table)
Belt Thickness:	12,7 mm / 0.5 inch

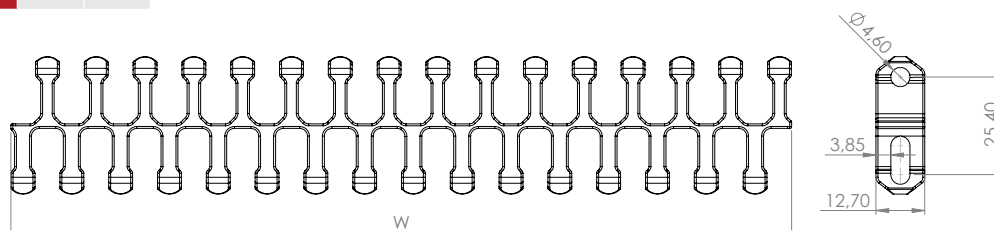


HC254 R Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength	N/m lb/ft	25000 - 1713	25000 - 1713	18000 - 1233	18000 - 1233
Belt Strength (Curve)	N lb	1700 - 382	1700 - 382	1225 - 275	1225 - 275
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	8,3 / 1.70	8,3 / 1.70	5,6 / 1.15	5.7 / 1.18

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width (mm)	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6
Belt Width (inch)	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00
Belt Width (mm)	1168,4	1219,2																	
Belt Width (inch)	46.00	48.00																	

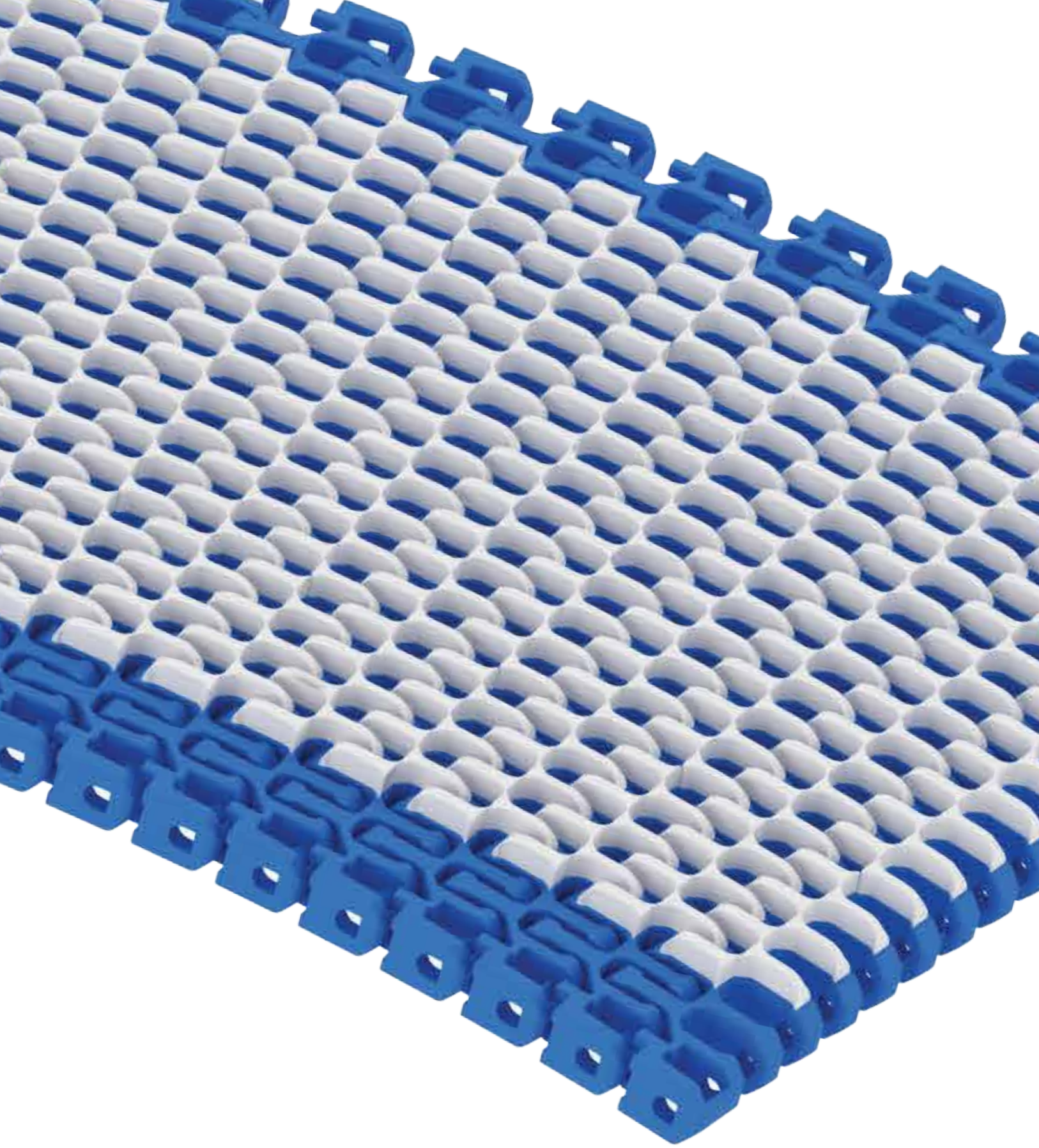


Product Features and Functional Benefits

- Designed for straight and radius conveyors.
- Offers optimal open area for drainage and airflow.
- Suitable for cooling-proofing-freezing operations.
- Food approved materials.

Important Notes

- Standard belt increments 12,7 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than 1200 mm (48") are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP & POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



HC254 R-GT

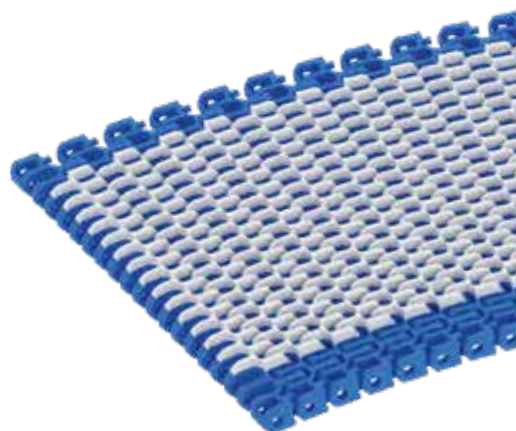
Modular Belt Series



MODUTECH[®]
Movement Technologies

HC254 R-GT

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Friction Top Surface
Minimum Width:	203,2 mm / 8 inch
Open Area (%):	42%. (Biggest opening 8,30 x 4,70 mm)
Product Contact Area (%):	25%
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White / Gray
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.22 (Please check HC254R Collapse Factors-Width Table)
Belt Thickness:	17,8 mm / 0.7 inch

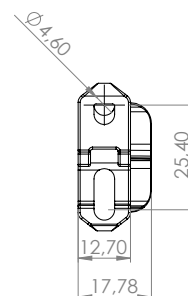
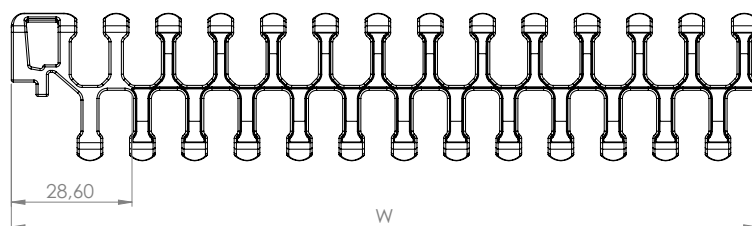


HC254 R-GT Technical Information

Belt Material		PP	PP
Rubber Material		TPE	
Pin Material		PA	POM
Belt Strength	N/m lb/ft	18000 - 1233	18000 - 1233
Belt Strength (Curve)	N lb	1225 - 275	1225 - 275
Temperature	°C °F	+5 / +60 -40 / +140	+5 / +60 -40 / +140
Belt Weight	kg/m ² lb/sqft ²	7,5 / 1.53	7,6 / 1.57

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width (mm)	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6
Belt Width (inch)	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00
Belt Width (mm)	1168,4	1219,2																	
Belt Width (inch)	46.00	48.00																	

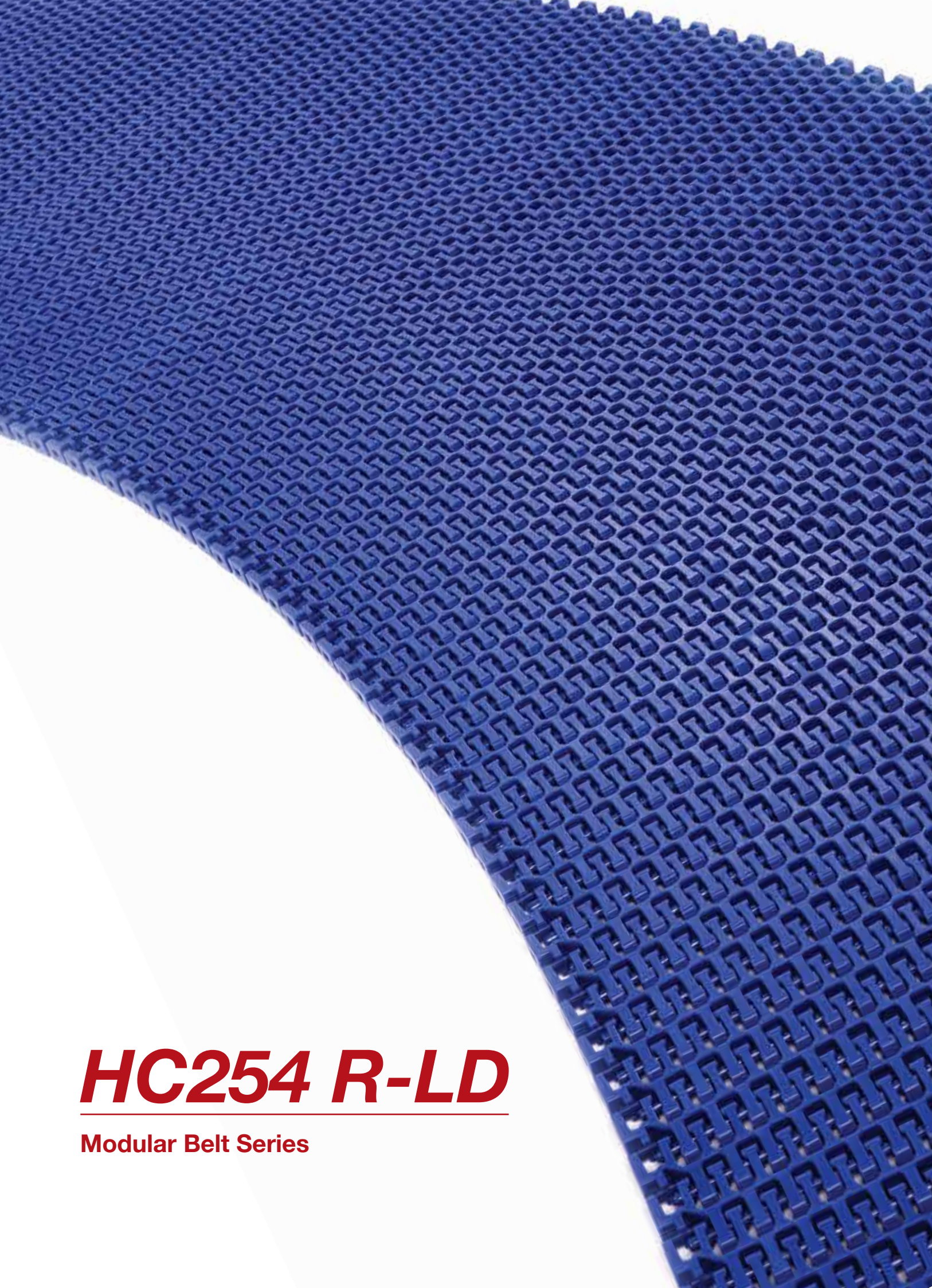


Product Features and Functional Benefits

- Designed for straight and radius conveyors.
- Offers optimal open area for drainage and airflow.
- The unique belt edge provides more uniform load distribution and minimizes fatigue-related failures throughout the belt. Increases belt life.
- High temperature and wear resistance.

Important Notes

- Standard belt increments 12,7 mm.
- Indent for rubber surface is 28,6 mm (1.125 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than 1200 mm (48") are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

A close-up, angled view of a blue modular belt material. The belt is composed of many small, interlocking plastic modules that form a continuous, textured surface. The perspective is from a low angle, looking down the length of the belt, which recedes into the distance. The lighting is even, highlighting the geometric pattern of the modules.

HC254 R-LD

Modular Belt Series



MODUTECH[®]
Movement Technologies

HC254 R-LD

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	203,2 mm / 8 inch
Open Area (%):	42%. (Biggest opening 8,30 x 4,70 mm)
Contact Area (%):	25%
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.22 (Please check HC254R Collapse Factors-Width Table)
Belt Thickness:	12,7 mm / 0.5 inch

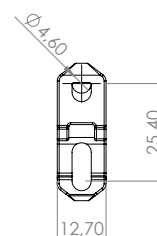
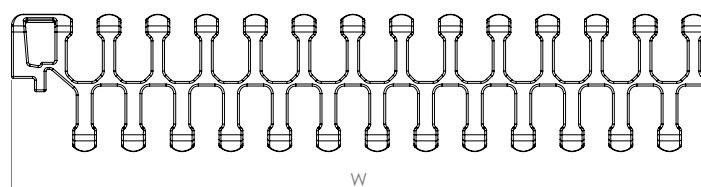


HC254 R-LD Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength	N/m lb/ft	25000 - 1713	25000 - 1713	18000 - 1233	18000 - 1233
Belt Strength (Curve)	N lb	1700 - 382	1700 - 382	1225 - 275	1225 - 275
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 -40 / +200
Belt Weight	kg/m ² lb/sqft ²	8,3 / 1.70	8,3 / 1.70	5,6 / 1.15	5.7 / 1.18

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width (mm)	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6
Belt Width (inch)	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00
Belt Width (mm)	1168,4	1219,2																	
Belt Width (inch)	46.00	48.00																	

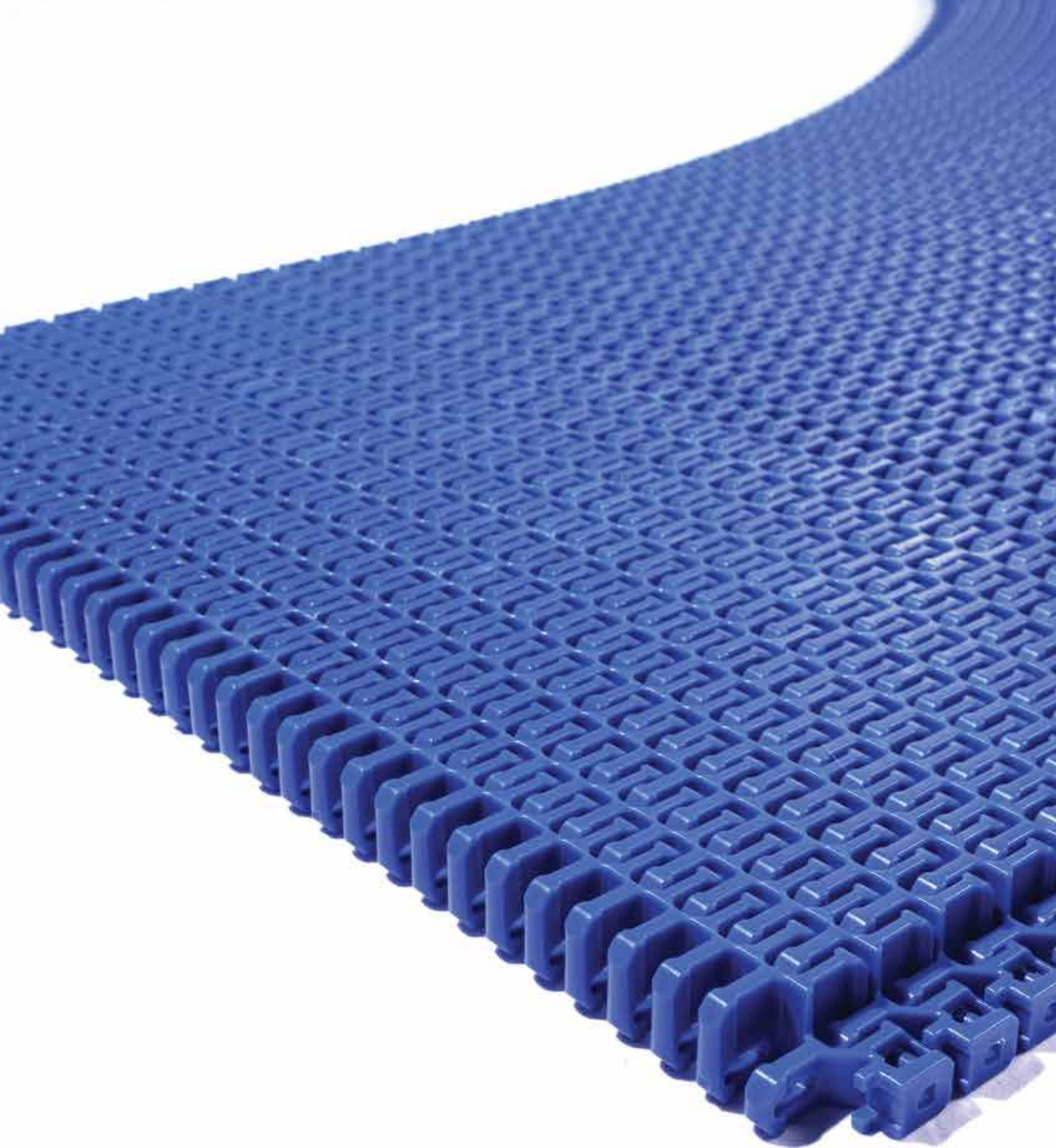


Product Features and Functional Benefits

- Designed for straight and radius conveyors.
- Offers optimal open area for drainage and airflow.
- The unique belt edge provides more uniform load distribution and minimizes fatigue-related failures throughout the belt. Increases belt life.
- Food approved materials.

Important Notes

- Standard belt increments 12,7 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than 1200 mm (48") are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP & POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.



HC254 R-HID-LD

Modular Belt Series



MODUTECH®
Movement Technologies

HC254 R-HID-LD

Pitch:	25,4 mm / 1 inch
Belt Surface:	Open, Raised Rib Surface
Minimum Width:	203,2 mm / 8 inch
Open Area (%):	42%. (Biggest opening 8,30 x 4,70 mm)
Product Contact Area (%):	25%
Flight:	No
Sidewall:	No
Pin:	Ø4,6 mm / 0.181 inch
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.22 (Please check HC254R Collapse Factors-Width Table)
Belt Thickness:	22,89 mm / 0.9 inch

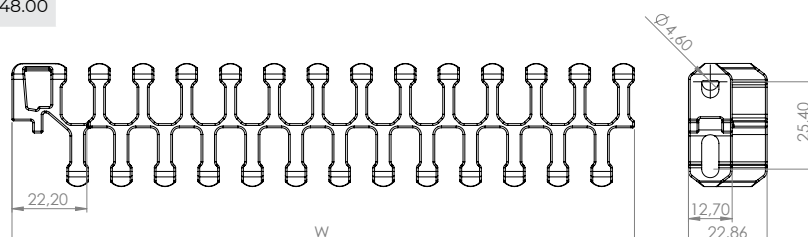


HC254 R-HID-LD Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength	N/m lb/ft	25000 - 1713	25000 - 1713	18000 - 1233	18000 - 1233
Belt Strength (Curve)	N lb	1700 - 382	1700 - 382	1225 - 275	1225 - 275
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	14,9 / 3.04	15,0 / 3.08	9,8 / 2.00	9,9 / 2.04

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	-	-

Belt Width (mm)	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6
Belt Width (inch)	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00
Belt Width (mm)	1168,4	1219,2																	
Belt Width (inch)	46.00	48.00																	



Product Features and Functional Benefits

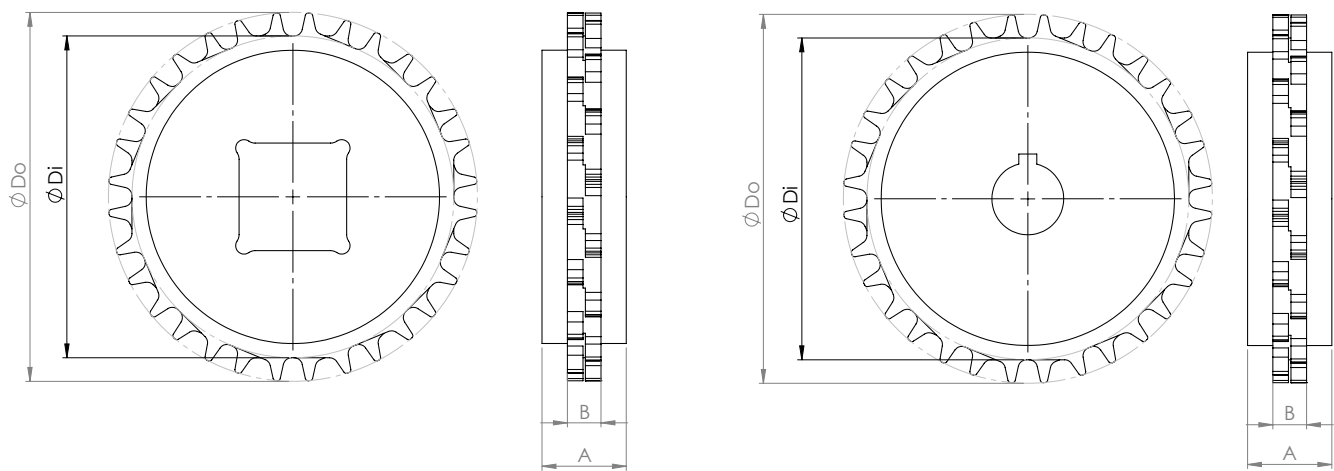
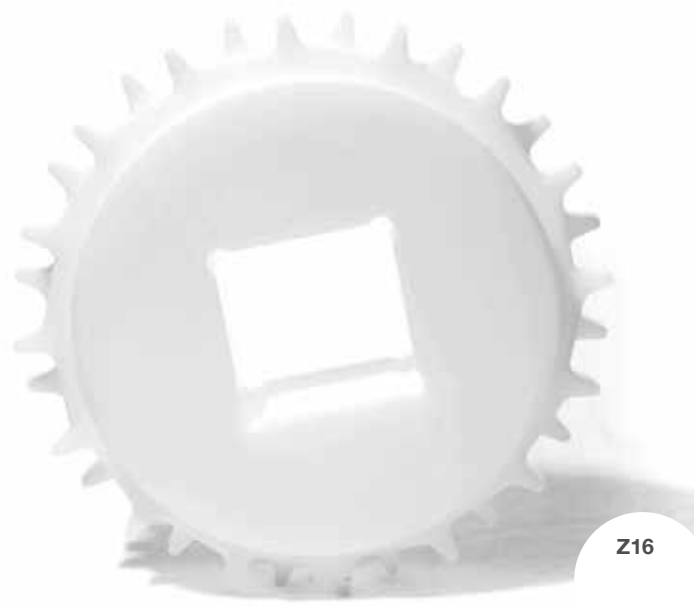
- Designed for straight and radius conveyors.
- Less friction and product contact for easy cooking, cooling and freezing of products.
- High Deck belt surface keeps heavy boxes and crates secure during transport.
- Prevents wide products from becoming stuck or misaligned.

Important Notes

- Standard belt increments 12,7 mm.
- Indent for High Deck surface is 22,2 mm (0.875 inch).
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than 1200 mm (48") are not recommended.
- For further information, please contact Modutech Representatives.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP & POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

HC254 R Series

Sprockets and Technical Specifications



HC254 R Series / Machined Sprocket Dimensions

NO.TEETH	Di	Do	A	B	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch		mm/inch		Square Type (Q)	Round Type (R)
Z12	81,7 / 3,21	98,5 / 3,87	30 / 1,18	12 / 0,47	25 to 40	1 to 1,5	25 to 40	1 to 1,5	HC254RSQZ12-POM	HC254RSRKZ12-POM
Z16	114,6 / 4,51	131,4 / 5,17	30 / 1,18	12 / 0,47	25 to 40	1 to 1,5	25 to 40	1 to 1,5	HC254RSQZ16-POM	HC254RSRKZ16-POM
Z20	147,3 / 5,79	164,1 / 6,46	30 / 1,18	12 / 0,47	25 to 60	1,5 to 2,5	25 to 40	1 to 1,5	HC254RSQZ20-POM	HC254RSRKZ20-POM

*All required sprockets are produced by CNC.

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

*PA (Polyamide) raw material and others are available on request.

***Machined Split Sprockets are available.**

HC254 R Series

Accessories and Technical Specifications

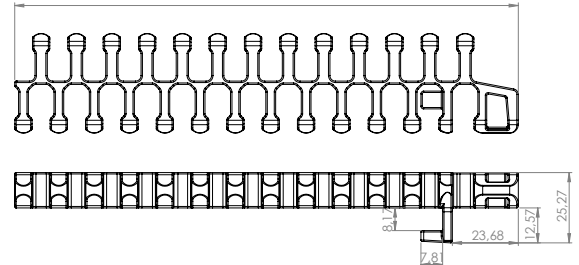
HC254 R Series / TAB - Technical Specifications

TAB-M

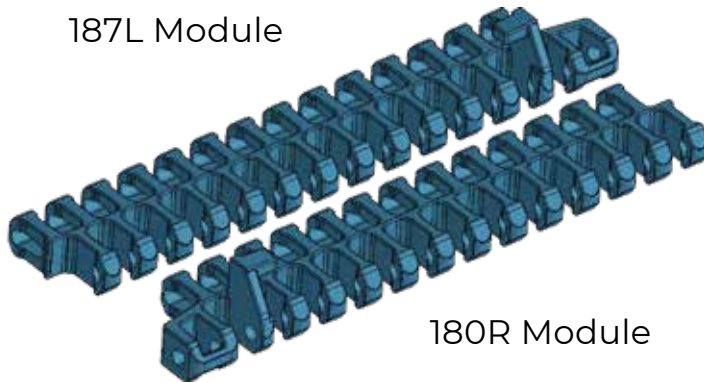


Upside Down View

Technical Drawings



187L Module



180R Module

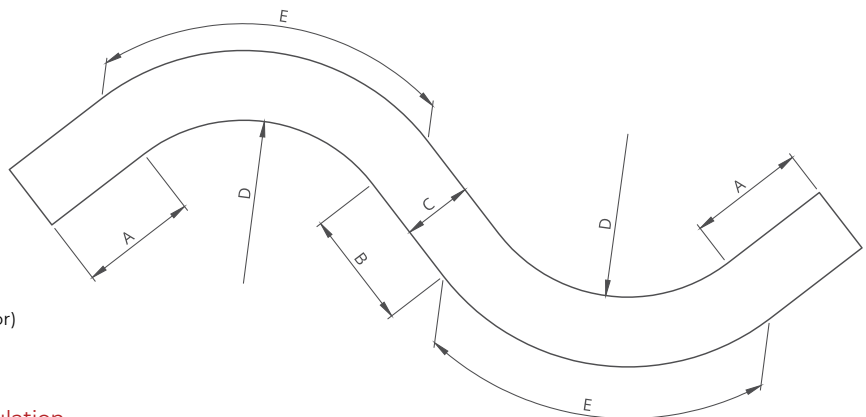
Important Notes:

*Please consider the distance between shaft and bottom edge of TAB during the conveyor design.

*TAB-M edge modules are available only with the standard edge design. Load-distributing edge designs are not available for this yet.

Radius Belt Example 90° S-Curve

Note: There is no minimum straight section (B) required between turns that are in the same direction. (U-turn conveyor)



HC254 R Series / Radius Belt Calculation

A: Straight run pull and n = min. 1,5 x belt width recommended

B: Straight run between 2 curves = min. 2 x belt width

C: Belt width

D: Minimum inner radius

E: Curve length

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

Minimum inner radius = Collapse Factor x Belt width

CALCULATION EXAMPLE

C: 508 mm (Belt width)

Collapse Factor: 2.24

D: 508 mm x 2.24 = 1137,92 mm

A: 508 (min.)

B: 2 x 508 mm = 1016 mm (min.)

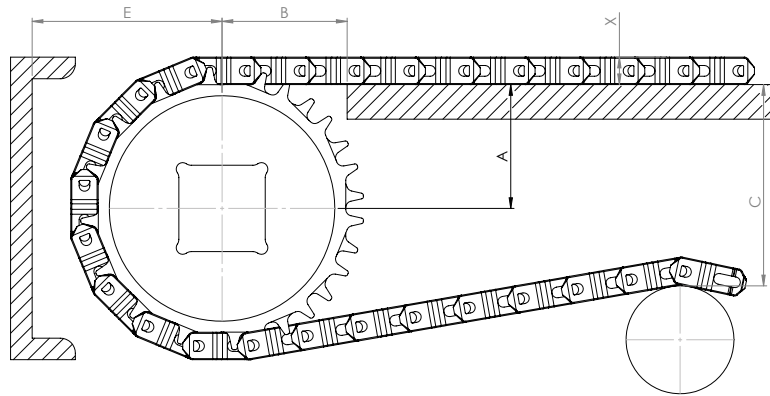
E: $\frac{2 \times (C+D) \times 3.14}{4} = 2584,1 \text{ mm}$

Total conveyor length = (2 x A) + B + (2 x E) = 7200,2 mm

HC254 R Series

Engineering Information

A: $\pm 0,031"$ (1mm)
B: $\pm 0,125"$ (1mm)
C: $\pm$ (Max.)
B: $\pm$ (Min.)



HC254 R Series / Conveyor Frame Dimensions

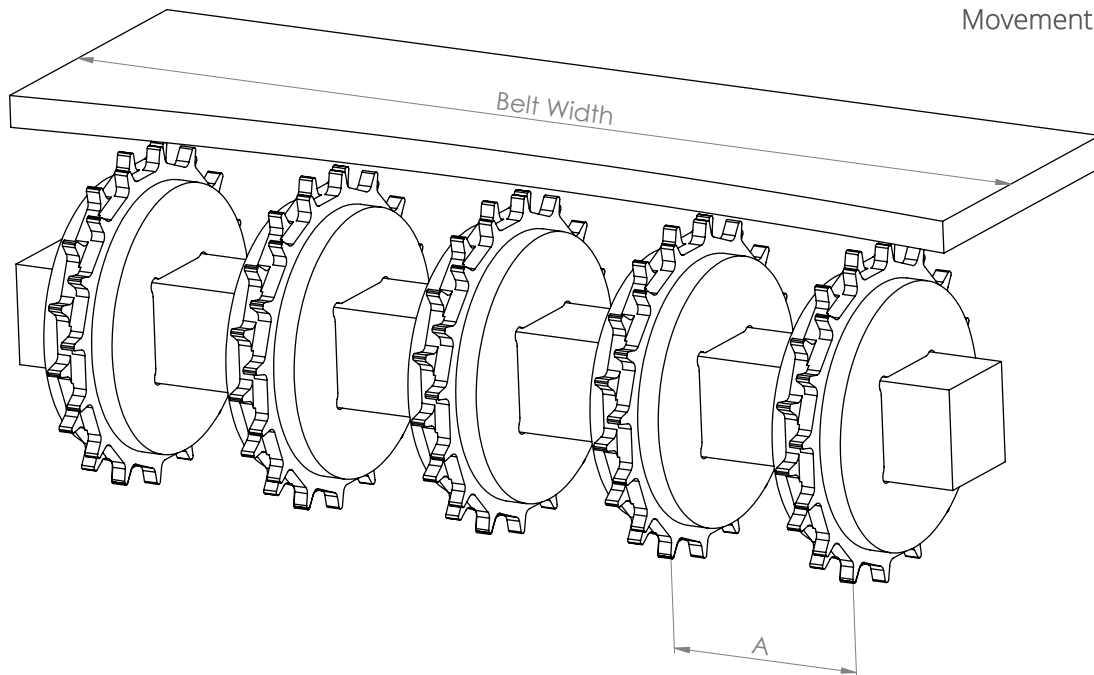
Sprockets Description			A		B		C		E		X	
Pitch Diameter		No.Teeth	Range (Bottom to Top)		inch	mm	inch	mm	inch	mm	inch	mm
inch	mm		inch	mm								
HC254 R, HC254 R-LS												
3,75	95,3	12	1,65	42	1,85	47	3,86	98	2,24	57	0,50	12,7
5,12	130,1	16	2,28	58	2,13	54	5,12	130	2,87	73	0,50	12,7
6,33	160,7	20	2,95	75	2,32	59	6,38	162	3,50	89	0,50	12,7
HC254 R-HID												
3,75	95,3	12	1,65	42	1,85	47	4,25	108	2,64	67	1,13	28,6
5,12	130,1	16	2,28	58	2,13	54	5,51	140	3,27	83	1,13	28,6
6,33	160,7	20	2,95	75	2,32	59	6,77	172	3,90	99	1,13	28,6
HC254 R-TAB-M												
3,75	95,3	12	1,65	42	1,85	47	3,86	98	2,24	57	0,50	12,7
5,12	130,1	16	2,28	58	2,13	54	5,12	130	2,87	73	0,50	12,7
6,33	160,7	20	2,95	75	2,32	59	6,38	162	3,50	89	0,50	12,7
HC254 R-GT												
3,75	95,3	12	1,65	42	1,85	47	4,06	103	2,44	62	0,70	17,78
5,12	130,1	16	2,28	58	2,13	54	5,31	135	3,07	78	0,70	17,78
6,33	160,7	20	2,95	75	2,32	59	6,57	167	3,70	94	0,70	17,78

HC254 R Series

Engineering Information



MODUTECH[®]
Movement Technologies



HC254 R Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
203,2	8	2	2	2	50 / 2	127 / 5
254,0	10	2	3	2	50 / 2	127 / 5
304,8	12	3	3	2	50 / 2	127 / 5
355,6	14	3	3	3	50 / 2	127 / 5
406,4	16	5	3	3	50 / 2	127 / 5
457,2	18	5	3	3	50 / 2	127 / 5
508,0	20	5	3	3	50 / 2	127 / 5
558,8	22	5	4	3	50 / 2	127 / 5
609,6	24	5	4	3	50 / 2	127 / 5
660,4	26	7	4	3	50 / 2	127 / 5
711,2	28	7	5	4	50 / 2	127 / 5
762,0	30	7	5	4	50 / 2	127 / 5
812,8	32	7	5	4	50 / 2	127 / 5
863,6	34	7	5	4	50 / 2	127 / 5
914,4	36	7	5	4	50 / 2	127 / 5
965,2	38	9	6	4	50 / 2	127 / 5
1016,0	40	9	6	5	50 / 2	127 / 5
1066,8	42	9	6	5	50 / 2	127 / 5
1117,6	44	9	7	5	50 / 2	127 / 5
1168,4	46	11	7	5	50 / 2	127 / 5
1219,2	48	11	7	5	50 / 2	127 / 5

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belt widths, central distance of sprockets should be minimum 152,4mm (6").

*For wider belts, central distance of carryway wearstrips 228,6mm (9"), returnway wearstrips 304,8mm (12").

HC254 R Series / Collapse Factors per belt width

Nom. Belt Width (mm)	203,2	254,0	304,8	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6	1168,4	1219,2
Nom. Belt Width (inch)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Collapse Factor	2,18	2,18	2,18	2,20	2,20	2,22	2,24	2,24	2,26	2,26	2,30	2,30	2,32	2,32	2,34	2,34	2,36	2,36	2,38	2,38	2,40
Min. Inner Radius (mm)	443,0	553,7	664,5	782,3	894,1	1015,0	1137,9	1251,7	1377,7	1492,5	1635,8	1752,6	1885,7	2003,6	2139,7	2258,6	2397,8	2517,6	2659,9	2780,8	2926,1
Min. Inner Radius (inch)	17,44	21,80	26,16	30,80	35,20	39,96	44,80	49,28	54,24	58,76	64,40	69,00	74,24	78,88	84,24	88,92	94,40	99,12	104,72	109,48	115,20

*Standard range of belt width and collapse factor (Min. Inner radius = Collapse factor x Standard belt width)

1.5" *Radius Belts*

Modular Belt Series

EC381 R

*Sprockets & Accessories
Engineering Information
Radius Belt Calculation*







EC381 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 Conveyance

- **Automotive Applications**

Car Part Manufacturing, Battery Filling

- **Packaging Applications**

Tray Packers, Box Transport Horizontal

- **Postal Applications**

Parcel Handling



MODUTECH®
Movement Technologies

EC381 R

Pitch:	38,1 mm / 1.5 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	200 mm / 7.87 inch
Open Area (%):	30%. (Biggest opening 7 x 19 mm)
Flight:	No
Sidewall:	No
Pin:	Ø6 mm / 0.296 inch - Self Lock
Approved:	FDA and EU
Curve:	Yes
Color:	White
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	1.85 - 2.13 (Please check page 211 to see Collapse Factors-Width Table)
Belt Thickness:	18 mm / 0.71 inch

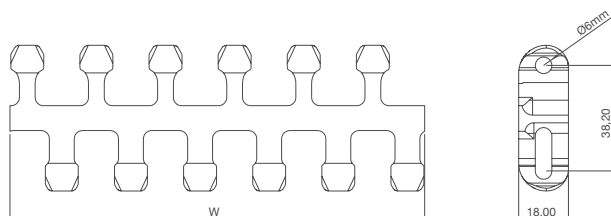


EC381 R Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength (Straight)	N/m lb/ft	32000 - 2192	32000 - 2192	23000 - 1575	23000 - 1575
Belt Strength (Curve)	N/m lb/ft	2400 - 540	2400 - 540	2000 - 450	2000 - 450
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	11.8 / 2.42	11.8 / 2.42	8.0 / 1.64	8.0 / 1.64

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
90	3.5	90	3.5	150	6	150	6	250	10

Belt Width mm	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0
Belt Width inch	7.87	9.84	11.81	13.78	15.75	17.72	19.69	21.65	23.62	25.59	27.56	29.53	31.50	33.46	35.43	37.40	41.34
Belt Width mm	1050,0	1100,0	1150,0	1200,0													
Belt Width inch	41.34	43.31	45.28	47.24													



Product Features and Functional Benefits

- Belt designed for tight radius applications.
- 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 airflow.

Important Notes

- **Standard belt increments 50 mm.**
- **Non-standard belt increments 25 mm.**
- Special raw materials and additional colors available.
- Belt widths bigger than **1200 mm (48")** are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally **0.1% to 0.3%** smaller.
- For PP & POM material up to **750 mm (30") -3 mm to 0mm** and **-0.4% to 0%** for wider belts.

EC381 R Series

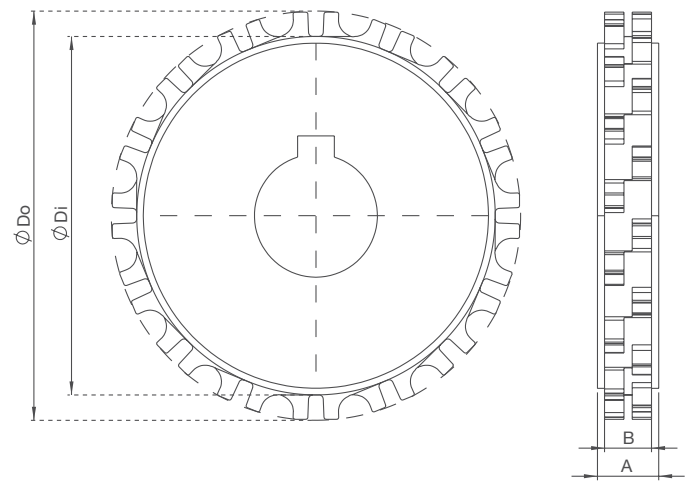
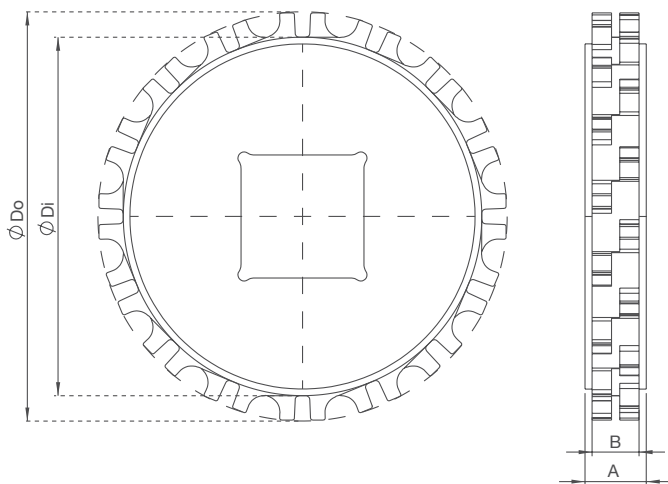
Engineering Information



Z16



Z12



EC381 R 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)
Z8	77,3 / 3.04	102,4 / 4.03	23 / 0.9	30,0 / 1.18	40	1.5	40	1.5	EC381RSQZ8*POM	EC381RSRZ8*POM
Z12	125,7 / 4.94	150,9 / 5.94	23 / 0.9	30,0 / 1.18	40-60	1.5-2.5	40-60	1.5-2.5	EC381RSQZ12*POM	EC381RSRZ12*POM
Z16	175,5 / 6.90	200,4 / 7.88	23 / 0.9	30,0 / 1.18	40-60	1.5-2.5	40-60	1.5-2.5	EC381RSQZ16*POM	EC381RSRZ16*POM

*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 available for each size.



Clamp



Machined Split Sprocket



Moulded Sprocket

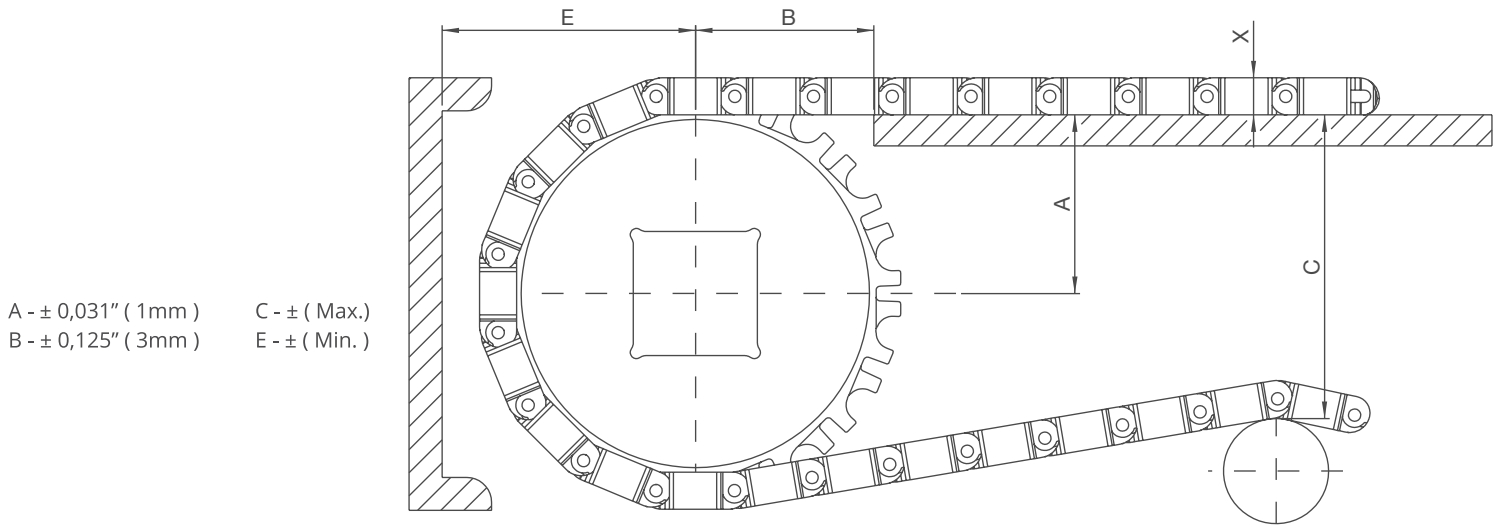


Machined Sprocket



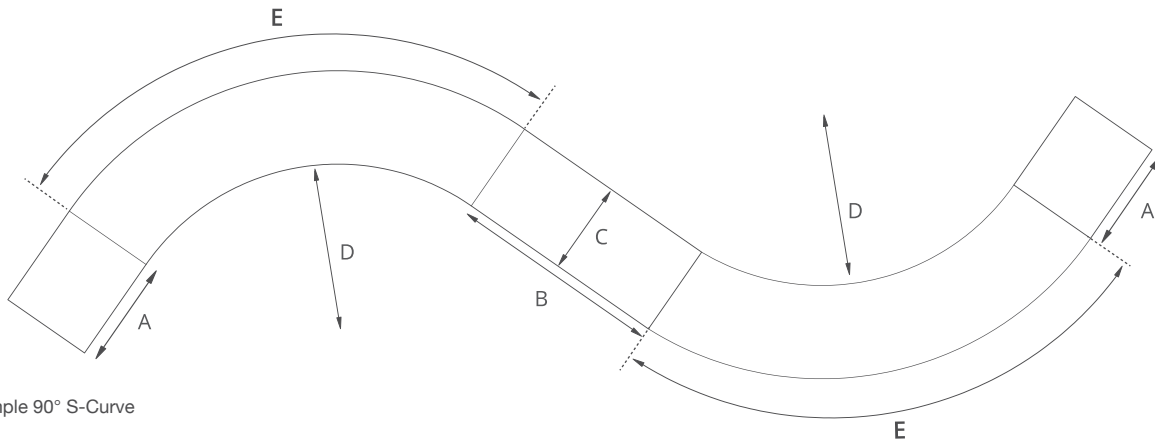
EC381 R Series

Engineering Information



EC381 R 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								
EC381 R												
3.96	100,6	8	1.70	43,2	2.63	66,8	3.01	76,4	4.11	104,4	0.71	18,0
5.86	148,8	12	2.66	67,6	3.01	76,5	4.93	125,2	6.03	153,2	0.71	18,0
7.77	197,3	16	3.63	92,3	4.23	107,4	6.87	174,6	7.98	202,6	0.71	18,0



Radius Belt Example 90° S-Curve

EC381 R Series / Radius Belt Calculation

- A:** Straight run pull and $n = \min. 1,5 \times$ belt width recommended
- B:** Straight run between 2 curves = $\min. 2 \times$ 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: 600 mm 90° Radius Belt

Collapse Factor: 2.07

D: $600 \times 2.07 = 1242$ mm

A: 600 (Min.)

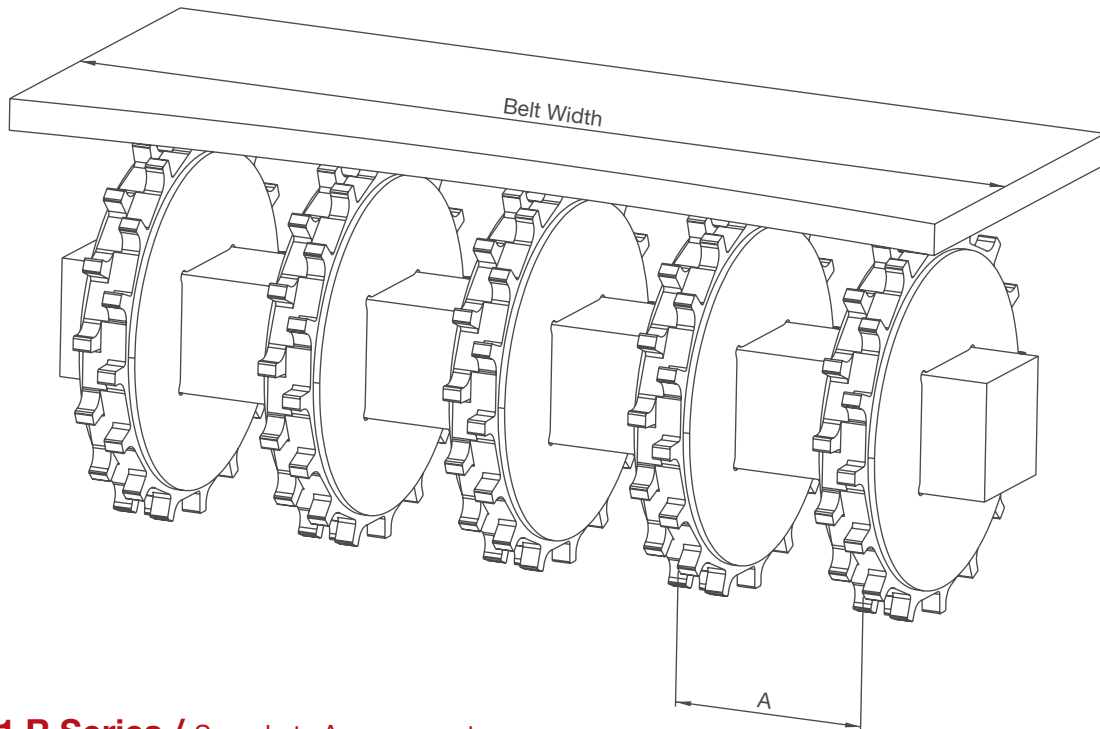
B: $2 \times 600 = 1200$ mm (Min.)

E: $\frac{2 \times (C + D) \times 3.14}{4} = 2893$ mm

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

EC381 R Series

Engineering Information



EC381 R Series / Sprockets Arrangement

Standard Belt Width		Number of sprockets per shaft		A (mm/inch)	
mm	inch	Drive Shaft	Return Shaft	Min.	Max.
200,0	7.9	2	2	50/2	120/4.7
250,0	9.8	2	2	50/2	120/4.7
300,0	11.8	2	2	50/2	120/4.7
350,0	13.8	3	3	50/2	120/4.7
400,0	15.7	3	3	50/2	120/4.7
450,0	17.7	3	3	50/2	120/4.7
500,0	19.7	3	3	50/2	120/4.7
550,0	21.7	3	3	50/2	120/4.7
600,0	23.6	5	5	50/2	120/4.7
650,0	25.6	5	5	50/2	120/4.7
700,0	27.6	5	5	50/2	120/4.7
750,0	29.5	5	5	50/2	120/4.7
800,0	31.5	5	5	50/2	120/4.7
850,0	33.5	7	7	50/2	120/4.7
900,0	35.4	7	7	50/2	120/4.7
950,0	37.4	7	7	50/2	120/4.7
1000,0	39.4	7	7	50/2	120/4.7
1050,0	41.3	7	7	50/2	120/4.7
1100,0	43.3	9	9	50/2	120/4.7
1150,0	45.3	9	9	50/2	120/4.7
1200,0	47.2	9	9	50/2	120/4.7

Note: Number of sprockets depends on the belt load.

EC381 R Series / Collapse Factors per width for EC381 R Series

Nom. Belt Width (mm)	200,0	250,0	300,0	350,0	400,0	450,0	500,0	550,0	600,0	650,0	700,0	750,0	800,0	850,0	900,0	950,0	1000,0	1050,0	1100,0	1150,0	1200,0
Nom. Belt Width (inch)	7.9	9.8	11.8	13.8	15.7	17.7	19.7	21.7	23.6	25.6	27.6	29.5	31.5	33.5	35.4	37.4	39.4	41.3	43.3	45.3	47.2
Collapse Factor	1,85	1,92	1,96	1,99	2,02	2,03	2,05	2,06	2,07	2,08	2,09	2,09	2,10	2,10	2,11	2,11	2,11	2,12	2,12	2,12	2,13
Min. Inner Radius (mm)	370,0	480,0	588,0	696,5	808,0	913,5	1025,0	1133,0	1242,0	1352,0	1463,0	1567,5	1680,0	1785,0	1899,0	2004,5	2110,0	2226,0	2332,0	2438,0	2556,0
Min. Inner Radius (inch)	14.6	18.9	23.1	27.4	31.8	36.0	40.4	44.6	48.9	53.2	57.6	61.7	66.1	70.3	74.8	78.9	83.1	87.6	91.8	96.0	100.6

Standard range of belt width and collapse factor (Min. Inner radius = Collapse factor x Standard belt width)

2" *Radius Belts*

Modular Belt Series

EC508 R

EC508T R

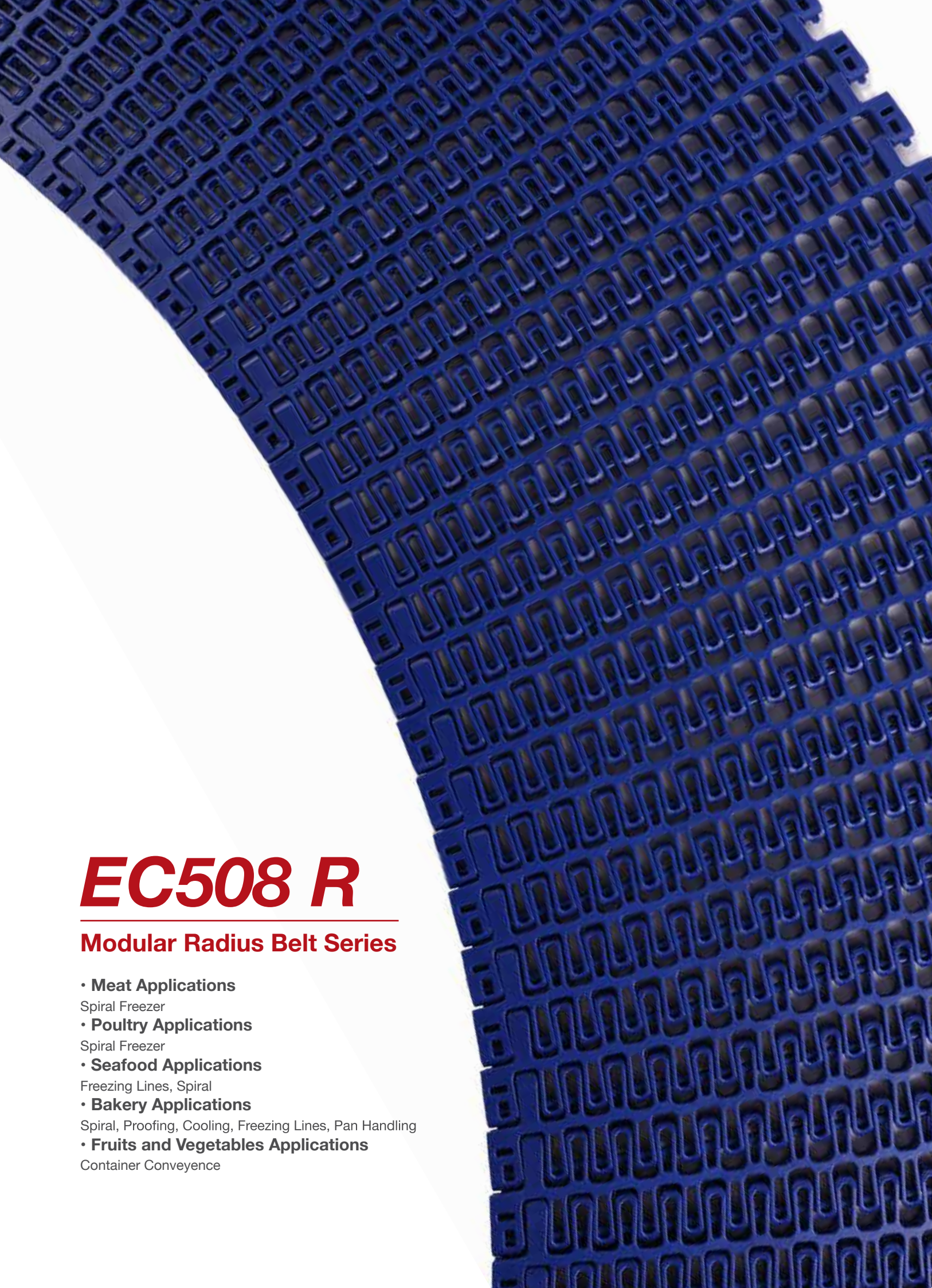
Sprockets & Accessories

Technical Specifications

*- Drum Types, Wear Strip Placement, Support
Engineering Information
Radius Belt Calculation*







EC508 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 Conveyance



MODUTECH®
Movement Technologies

EC508 R

Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	508 mm / 20 inch
Open Area (%):	58%. (Biggest opening 15 x 17 mm)
Contact Area (%):	85%. Open Contact Area
Flight:	No
Sidewall:	Yes
Pin:	Ø 6 mm / 0.236 inch - Self Lock
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	2.13 - 2.22
Belt Thickness:	16 mm / 0.63 inch

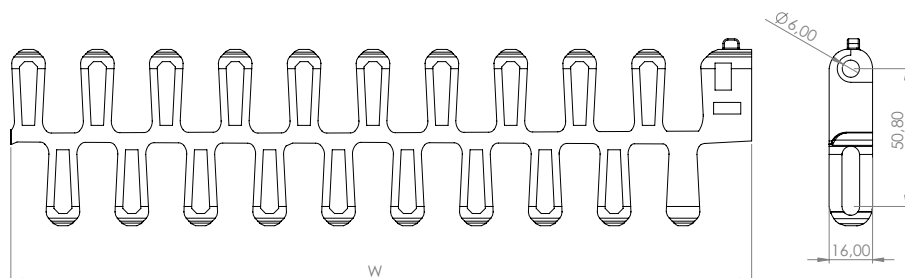


EC508 R Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength (Straight)	N/m lb/ft	21000 - 1439	21000 - 1439	15000 - 1028	15000 - 1028
Belt Strength (Curve)	N lb	3200 - 720	3200 - 720	2330 - 516	2330 - 516
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 -40 / +200
Belt Weight	kg/m² lb/sqft²	7.5 / 1.54	7.5 / 1.54	5.2 / 1.07	7.5 / 1.54

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
100	4	100	4	150	6	150	6	150	6

Belt Width mm	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	965,2	1016,0	1066,8	1117,6	1168,4	1219,2	1270,0	1320,8	1371,6	1422,4	1473,2	1524,0
Belt Width inch	20.00	22.00	24.00	26.00	28.00	30.00	32.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00	56.00	58.00	60.00



Product Features and Functional Benefits

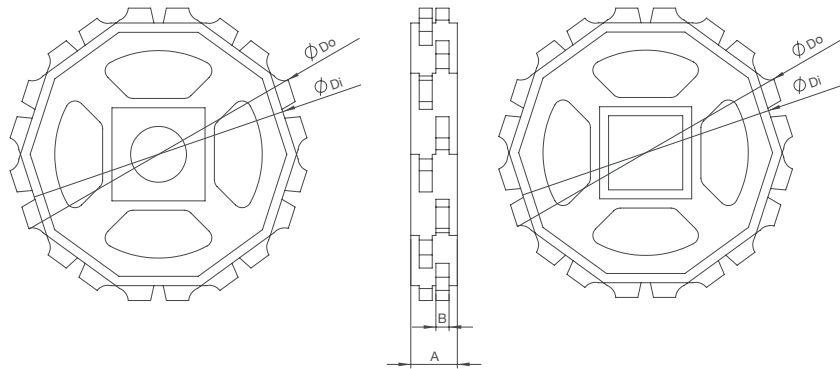
- Designed for straight and radius conveyors.
- Offers optimal open area for drainage and airflow.
- Suitable for cooling-proofing-freezing operations.
- Ideal for low-tension, friction-drive spiral systems.
- Food approved materials.

Important Notes

- Standard belt increments 50,8 mm.
- Non-standard belt increments 25,4 mm.
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than 1200 mm (48") are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally 0.1% to 0.3% smaller.
- For PP & POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

EC508 R Series

Sprockets and Accessories



EC508 R Series / Molded Sprocket Dimensions

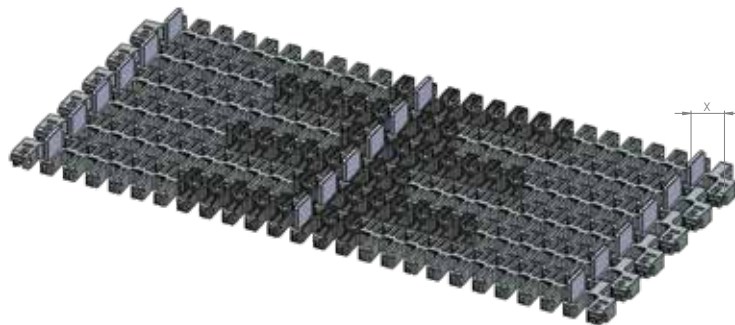
NO.TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	107,4 / 4.23	127,4 / 5.01	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ8*POM	MD-TR508SRZ8*POM
Z10	141,3 / 5.56	160,4 / 6.31	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ10*POM	MD-TR508SRZ10*POM
Z12	174,7 / 6.87	193,27 / 7.61	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ12*POM	MD-TR508SRZ12*POM
Z16	240,9 / 9.48	258,7 / 10.18	40,00 / 1.57	7,00 / 0.27	60 & 90	-	-	-	MD-TR508SQZ16*POM	MD-TR508SRZ16*POM

*All required sprockets produced by CNC.

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

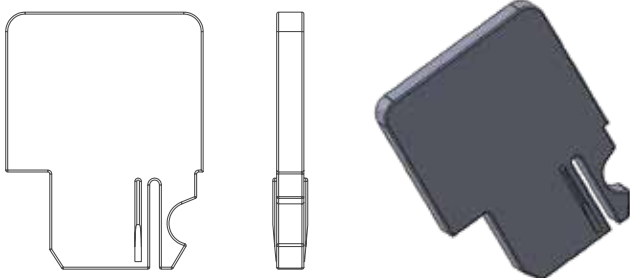
*POM (Acetal) and PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available for each size.



EC508 R Series / Divider Technical Specifications

Divider Indents	X	
	mm	inch
Standard	35,9	1.41
Standard	61,3	2.41
Standard	86,7	3.41
Standard	112,1	4.41

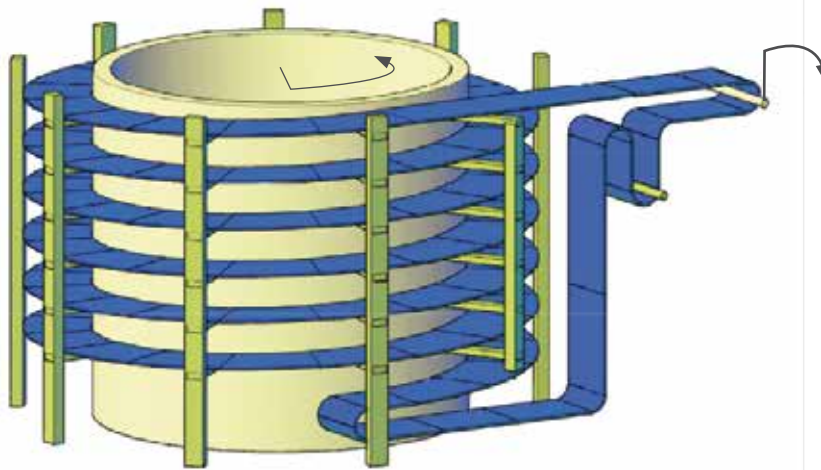


EC508 R Series

Technical Specifications

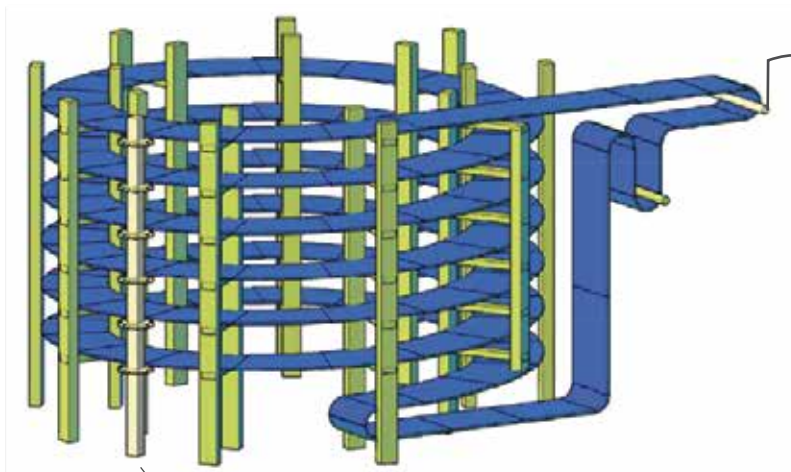
EC508 R Series / Drum Types

Central Driver Drum



Spiral conveyor of this kind is made of modular belt that twisted around of special drum structure in the center. The belt is sliding on rails with plastic profile with low friction. The rails are fixed on external vertical support columns. The drive drum has a cylindrical shape and made of profiled pipes or plates, forming a continuous or rarefied surface.

Lateral Driver Drum



Drive Shaft

Lateral drive system has been implemented as a stainless steel structure with a gear motor located in a bottom part and connected with a vertical shaft that has driving sprockets, the number of which equals the number of tiers on the spiral conveyor. Belt received the teeth on the outer contour and through which carried out the movement from the sprockets, thus forming a multilevel gear transmission.

Wear Strip Placement Calculation

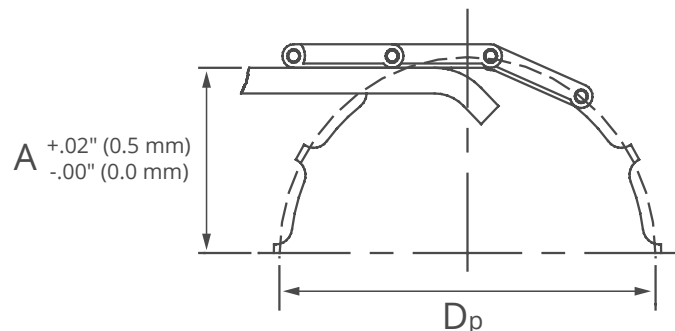
This formula is a general guideline and does not take into consideration belts traveling at speeds greater than 75 ft/min. (23 m/minute). For high speed applications, Modutech recommends increasing the height of "A" and shortening the wear strips as much as one belt pitch in length.

$$A = \frac{1}{2} \times (D_p - BT)$$

A = Calculated Height

D_p = Sprocket Pitch Diameter

BT = Belt Thickness



EC508 R Series

Technical Specifications

EC508 R Series / Wear Strip Placement

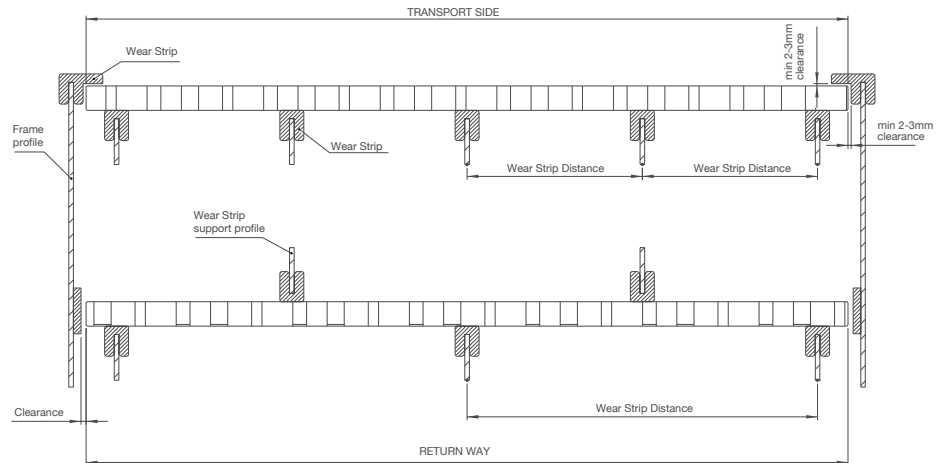
Due to the strength and rigidity of the stainless steel pins the number of wear strip can be largely reduced compared to other belts with plastic pin.

The wear strip distance is based on the product weight and how is distributed on the belt. a range between 250 and 400 mm is covering most of the case. on the return path the guides can be spaced up 1 meter apart.

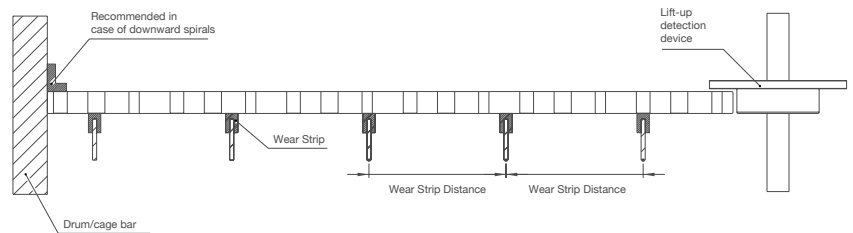
Due to excellent belt width tolerance the lateral gap between belt and guides can be few mm, anyhow it is important to keep into firm consideration the thermal dilatation of the belt that corresponds exactly to the dilatation of the stainless steel pin.

Note: Please contact with your sales representative for suitable wear strip types and location for spiral towers.

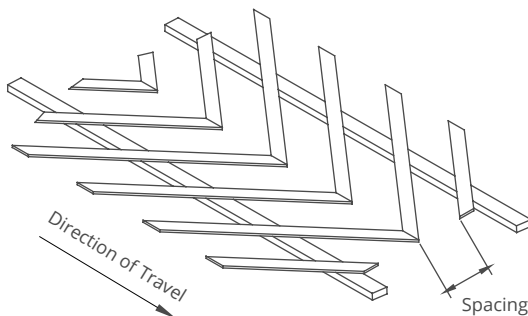
Radius Application



Spiral Application

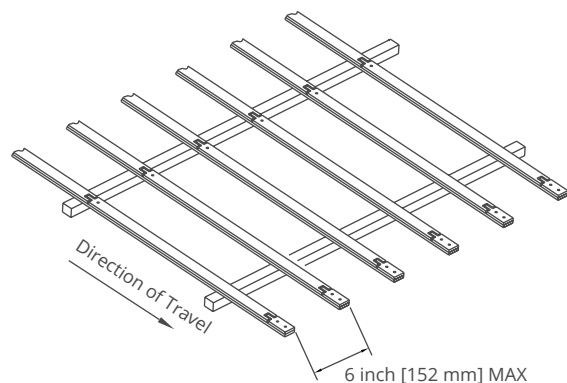


EC508 R Series / Support



Herringbone rails: Modutech recommended.

Flat wear strips in a “V” configuration with the point of the “V” pointing in the direction of travel. Low friction wear strip material preferred to minimize belt wear. Recommended spacing between rails of 100–300mm depending on belt type, load, and other factors. This configuration distributes the wear over the entire belt width.



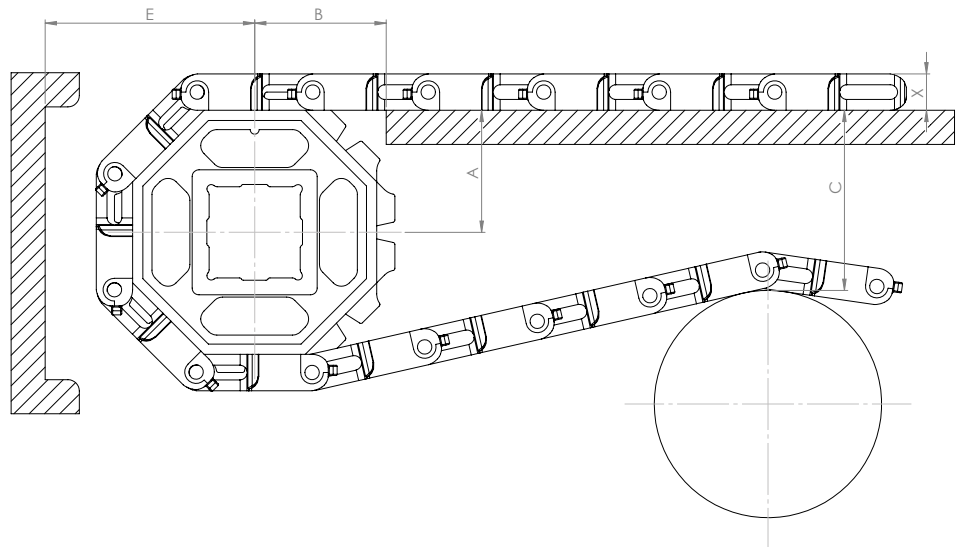
Longitudinal Rails: Flat wear strips the

full length of the conveyor, parallel to each other and perpendicular to the terminal shafts. Low friction wear strip material preferred to minimize belt wear. Recommended spacing between rails of 100-300mm depending on belt type, load, and other factors. This configuration does not distribute wear over the full width of the belt.

EC508 R Series

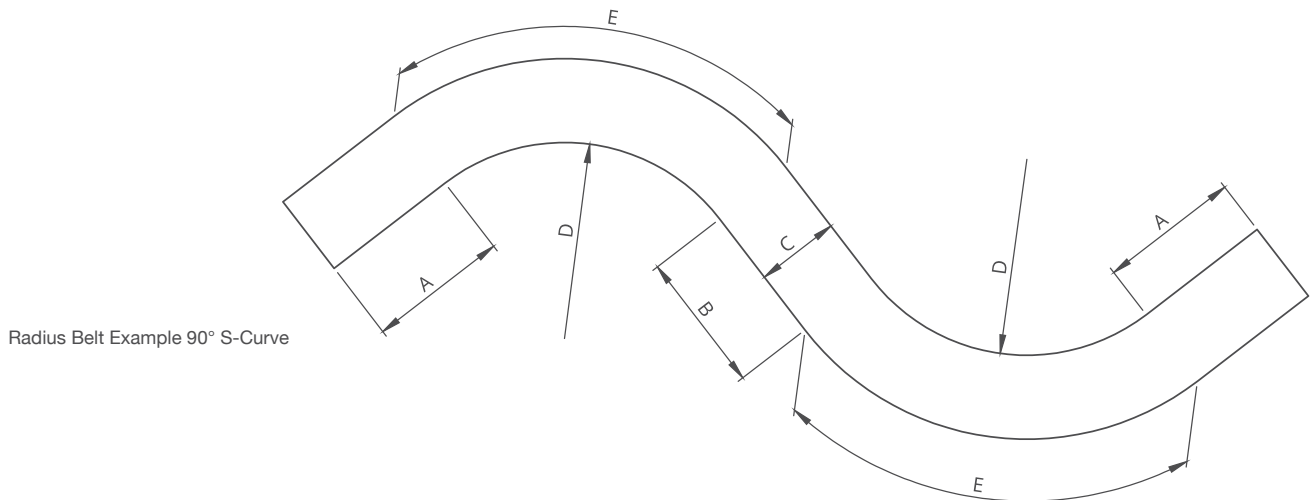
Engineering Information

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



EC508 R 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								
EC508 R, EC508T R												
5.1	129,3	8	2.36	60,1	1.85	47,0	4.47	113,5	3.36	85,4	0.63	16,0
5.5	164,3	10	2.96	75,1	2.31	58,7	5.85	141,8	4.01	101,8	0.63	16,0
7.6	193,1	12	3.55	90,1	2.77	70,5	6.70	170,2	4.65	118,1	0.63	16,0
10.2	259,5	16	4.74	120,45	3.74	95	7.48	190,0	6.01	154,2	0.63	16,0



Radius Belt Example 90° S-Curve

EC508 R Series / Radius Belt Calculation

- A:** Straight run pull and n = min. 1,5 x belt width recommended
- 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: 762 mm Radius Belt
Collapse Factor: 2.20

$$\text{D: } 762 \text{ mm} \times 2.20 = 1676,4 \text{ mm}$$

$$\text{A: } 762 \text{ (min.)}$$

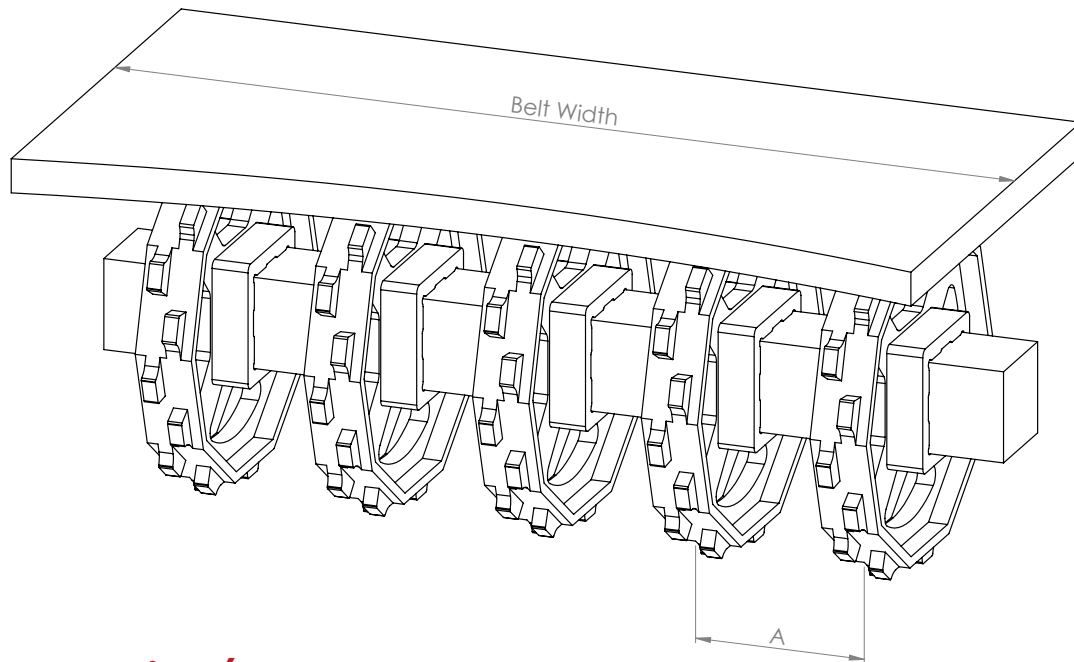
$$\text{B: } 2 \times 762 \text{ mm} = 1524 \text{ mm (min.)}$$

$$\text{E: } \frac{2 \times (C+D) \times 3.14}{4} = 3828,30 \text{ mm}$$

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

EC508 R Series

Engineering Information



EC508 R Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
508,0	20	3	2	2	51 / 2	203 / 8
558,8	22	3	2	2	51 / 2	203 / 8
609,6	24	3	2	2	51 / 2	203 / 8
660,4	26	3	2	2	51 / 2	203 / 8
711,2	28	5	2	2	51 / 2	203 / 8
762,0	30	5	3	2	51 / 2	203 / 8
812,8	32	5	3	2	51 / 2	203 / 8
863,6	34	5	3	2	51 / 2	203 / 8
914,4	36	5	3	2	51 / 2	203 / 8
965,2	38	5	3	2	51 / 2	203 / 8
1016,0	40	5	3	3	51 / 2	203 / 8
1066,8	42	5	3	3	51 / 2	203 / 8
1117,6	44	7	3	3	51 / 2	203 / 8
1168,4	46	7	3	3	51 / 2	203 / 8
1219,2	48	7	3	3	51 / 2	203 / 8
1270,0	50	7	3	3	51 / 2	203 / 8
1320,8	52	7	3	3	51 / 2	203 / 8
1371,6	54	7	3	3	51 / 2	203 / 8
1422,4	56	7	4	3	51 / 2	203 / 8
1473,2	58	7	4	3	51 / 2	203 / 8
1524,0	60	9	4	3	51 / 2	203 / 8

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belts, central distance of sprockets recommended to be maximum 152,4mm (6") to 203,2mm (8").

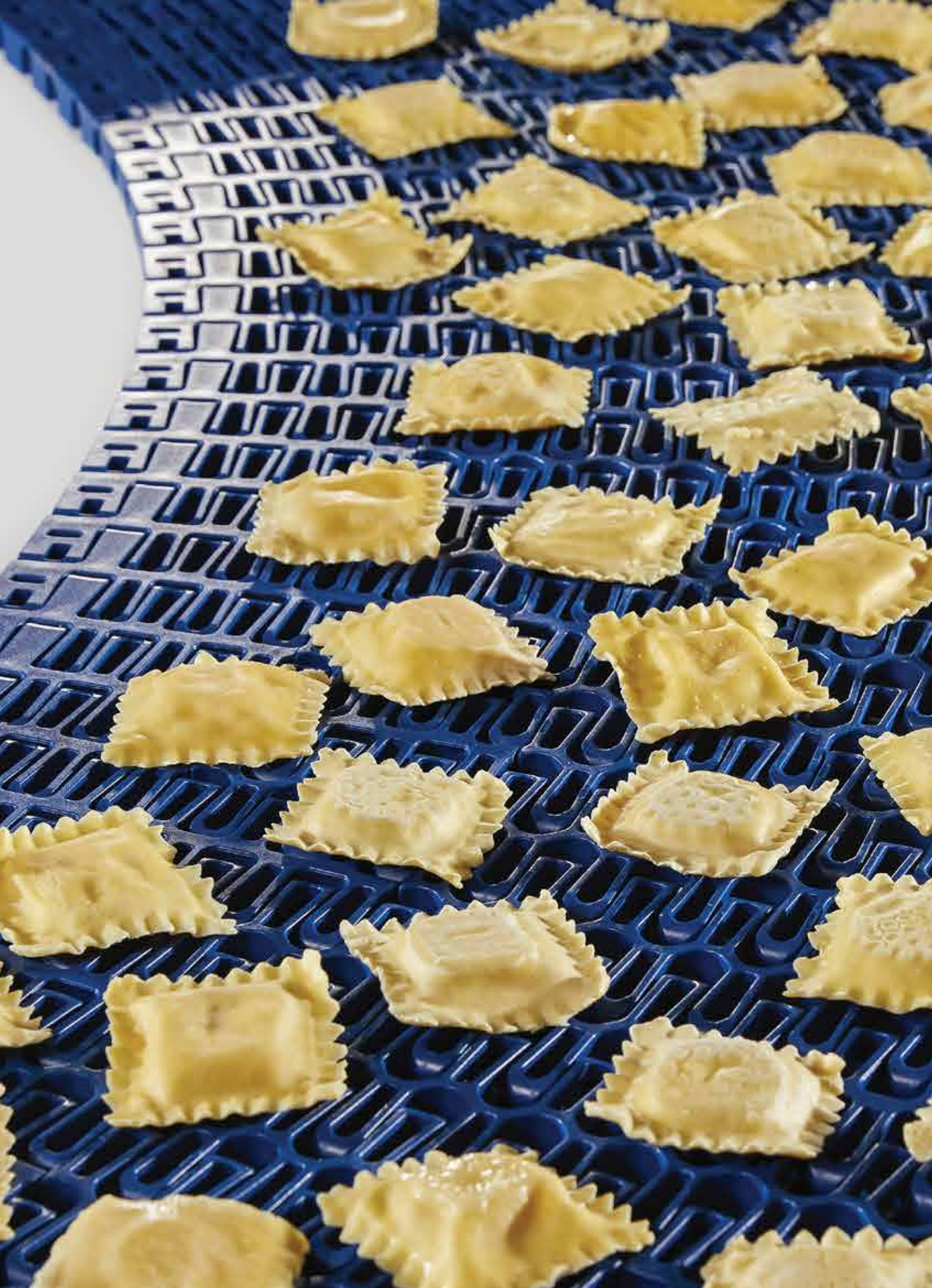
*For wider belts, central distance of carryway & returnway wearstrips may change 304,8mm (12") to 508mm (20").

*Number of sprockets, idlers and wearstrips may vary for spiral applications.

EC508 R Series / Collapse Factors per width for EC508 R Series

Nom. Belt Width (mm)	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6	1168,4	1219,2	1270,0	1320,8	1371,6	1422,4	1473,2	1524,0
Nom. Belt Width (inch)	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0	54.0	56.0	58.0	60.0
Collapse Factor	2,13	2,14	2,15	2,16	2,17	2,18	2,18	2,19	2,19	2,19	2,20	2,20	2,20	2,21	2,21	2,21	2,21	2,21	2,22	2,22	2,22
Min. Inner Radius (mm)	1082,0	1195,8	1310,6	1426,5	1543,3	1661,2	1771,9	1891,3	2002,5	2113,8	2235,2	2347,0	2458,7	2582,2	2694,4	2806,7	2918,9	3031,2	3157,7	3270,5	3383,2
Min. Inner Radius (inch)	42.6	47.1	51.6	56.2	60.8	65.4	69.8	74.5	78.8	83.2	88.0	92.4	96.8	101.7	106.1	110.5	114.9	119.3	124.3	128.7	133.2

*Standard range of belt width and collapse factor (Min. Inner radius = Collapse factor x Standard belt width)





EC508T 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 Conveyance

EC508T R

Pitch:	50,8 mm / 2 inch
Belt Surface:	Open, Smooth Surface
Minimum Width:	508 mm / 20 inch
Open Area (%):	58%. (Biggest opening 15 x 17 mm)
Contact Area (%):	85%. Open Contact Area
Flight:	No
Divider:	Yes
Pin:	Ø 6 mm / 0.296 inch - Self Lock
Approved:	FDA and EU
Curve:	Yes
Color:	Blue / White
Cleanability:	Excellent
Application:	Straight and side flexing
Collapse Factor:	1.5 - 1.7 (Please check page 221 to see Collapse Factors-Width Table)
Belt Thickness:	16 mm / 0.63 inch

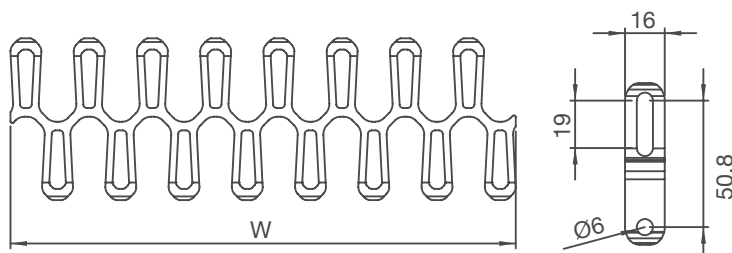


EC508T R Technical Information

Belt Material		POM	POM	PP	PP
Pin Material		PA	POM	PA	POM
Belt Strength (Straight)	N/m lb/ft	21000 - 1439	21000 - 1439	15000 - 1028	15000 - 1028
Belt Strength (Curve)	N/m lb/ft	3200 - 720	3200 - 720	2330 - 516	2330 - 516
Temperature	°C °F	-40 / +93 -40 / +200	-40 / +93 -40 / +200	+5 / +105 +40 / +220	+5 / +93 +40 / +200
Belt Weight	kg/m² lb/sqft²	7.5 / 1.54	7.5 / 1.54	5.2 / 1.07	5.2 / 1.07

Diameter of idling rollers (min.)		Diameter of support rollers (min.)		Diameter for gravity take up center drive rollers (min.)		Backbending radius for elevators without side guards or hold down devices (min.)		Backbending radius for elevators with side guards or hold down devices (min.)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
100	4	100	4	150	6	150	6	150	6

Belt Width mm	508,0	558,8	609,9	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6	1168,4	1219,2	1270,0	1320,8
Belt Width inch	20.00	22.00	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00
Belt Width mm	1371,6	1422,4	1473,2	1524,0													
Belt Width inch	54.00	56.00	58.00	60.00													



Product Features and Functional Benefits

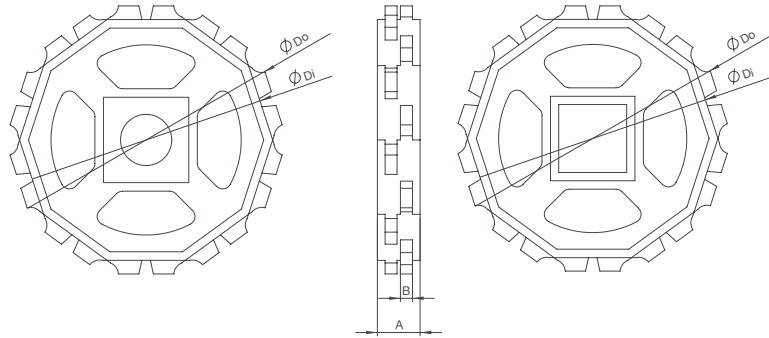
- Belt designed for tight radius applications.
- Available for medium and high load capacity.
- High temperature and wear resistance. Unique locking system.
- Belt provides optimal open area for drainage and airflow.
- Suitable for proofer-cooling-freezing spiral towers.

Important Notes

- **Standard belt increments 50,8 mm. Non-standard belt increments 25,4 mm.**
- Please contact with customer service for precise belt measurements.
- Special raw materials and additional colors available.
- Belt widths bigger than **1200 mm (48")** are not recommended. For further information, please contact Modutech Representatives.
- Physical belt widths are generally **0.1% to 0.3%** smaller.
- For PP & POM material up to **750 mm (30") -3 mm to 0 mm** and **-0.4% to 0%** for wider belts.

EC508T R Series

Sprockets and Accessories



EC508T R Series / Molded Sprocket Dimensions

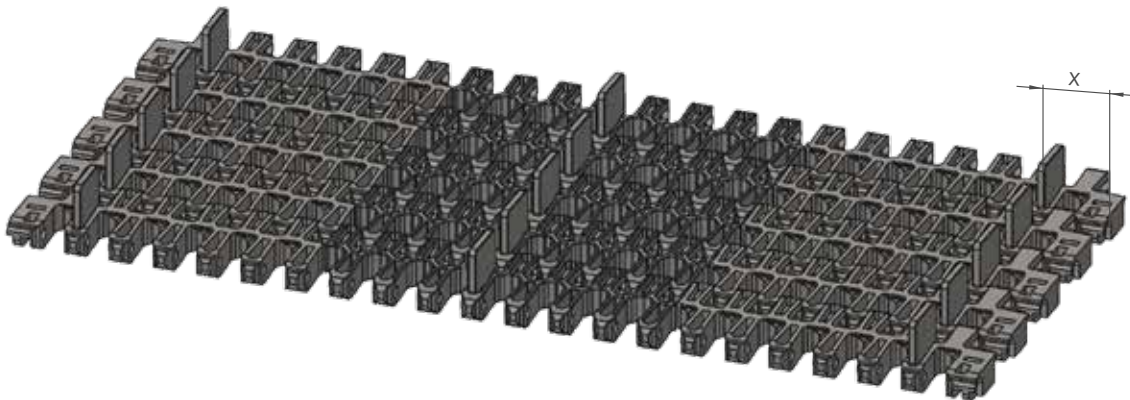
NO.TEETH	Di mm/inch	Do mm/inch	A mm/inch	B mm/inch	Square Bore (Q)		Round Bore (R)		PRODUCT CODE	
					mm	inch	mm	inch	Square Type (Q)	Round Type (R)
Z8	107,4 / 4.23	127,4 / 5.01	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ8*POM	MD-TR508SRZ8*POM
Z10	141,3 / 5.56	160,4 / 6.31	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ10*POM	MD-TR508SRZ10*POM
Z12	174,7 / 6.87	193,27 / 7.61	40,00 / 1.57	7,00 / 0.27	40	1.5	25 to 30	1 to 1.25	MD-TR508SQZ12*POM	MD-TR508SRZ12*POM
Z16	240,9 / 9.48	258,7 / 10.18	40,00 / 1.57	7,00 / 0.27	60 & 90	-	-	-	MD-TR508SQZ16*POM	MD-TR508SRZ16*POM

*All required sprockets produced by CNC.

*Other sprockets and hub sizes are manufactured on request..

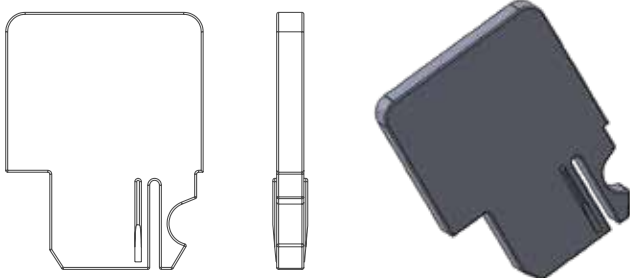
*PA (Polyamide) sprockets raw material is available on request.

*Machined Split Sprockets are available on request.



EC508T R Series / Divider Technical Specifications

Divider Indents	X	
	mm	inch
Standard	35,9	1.41
Standard	61,3	2.41
Standard	86,7	3.41
Standard	112,1	4.41

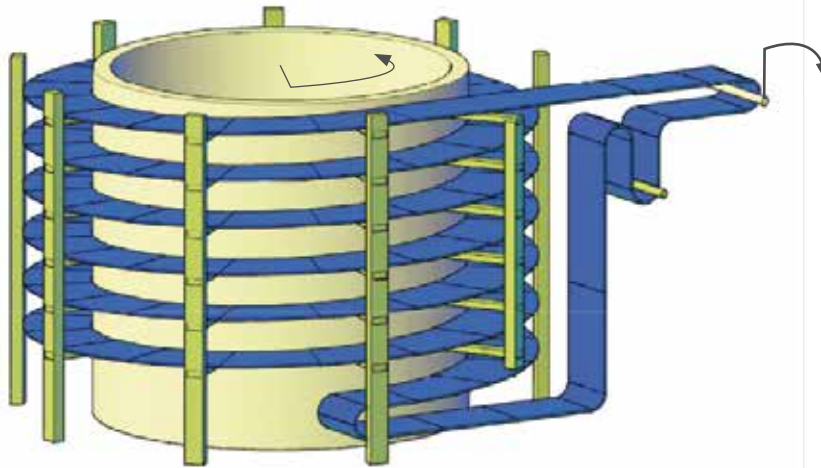


EC508T R Series

Technical Specifications

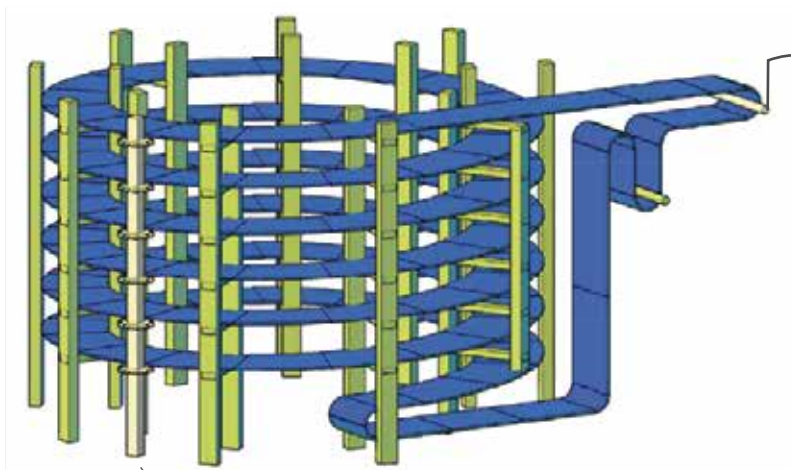
EC508T R Series / Drum Types

Central Driver Drum



Spiral conveyor of this kind is made of modular belt that twisted around of special drum structure in the center. The belt is sliding on rails with plastic profile with low friction. The rails are fixed on external vertical support columns. The drive drum has a cylindrical shape and made of profiled pipes or plates, forming a continuous or rarefied surface.

Lateral Driver Drum



Drive Shaft

Lateral drive system has been implemented as a stainless steel structure with a gear motor located in a bottom part and connected with a vertical shaft that has driving sprockets, the number of which equals the number of tiers on the spiral conveyor. Belt received the teeth on the outer contour and through which carried out the movement from the sprockets, thus forming a multilevel gear transmission.

Wear Strip Placement Calculation

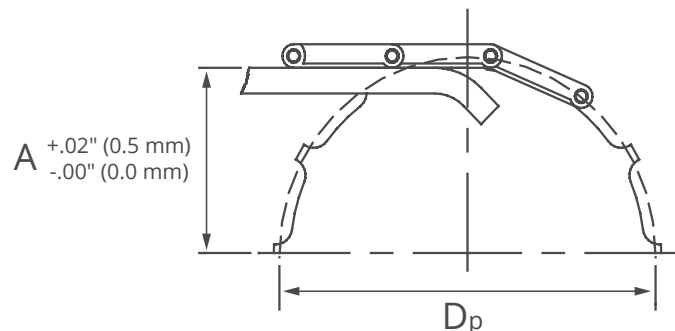
This formula is a general guideline and does not take into consideration belts traveling at speeds greater than 75 ft/min. (23 m/minute). For high speed applications, Modutech recommends increasing the height of "A" and shortening the wear strips as much as one belt pitch in length.

$$A = \frac{1}{2} \times (D_p - BT)$$

A = Calculated Height

D_p = Sprocket Pitch Diameter

BT = Belt Thickness



EC508T R Series

Technical Specifications

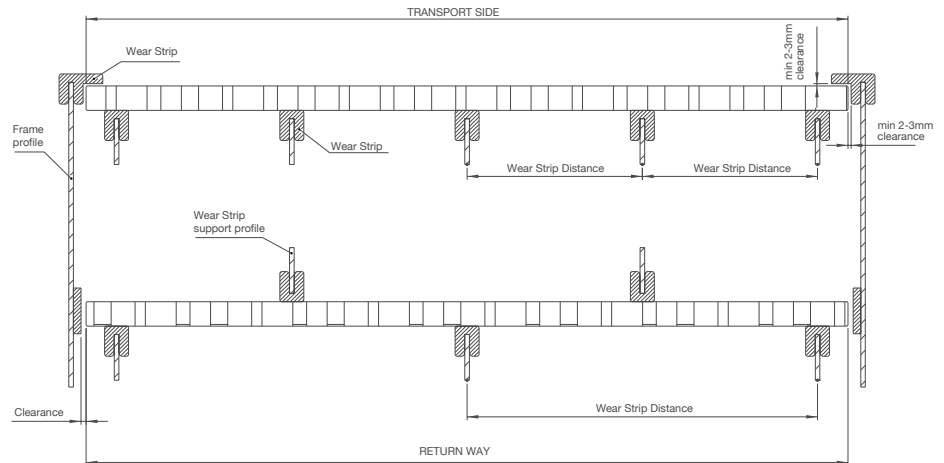
EC508T R Series / Wear Strip Placement

Due to the strength and rigidity of the stainless steel pins the number of wear strip can be largely reduced compared to other belts with plastic pin.

The wear strip distance is based on the product weight and how is distributed on the belt. a range between 250 and 400 mm is covering most of the case. on the return path the guides can be spaced up 1 meter apart.

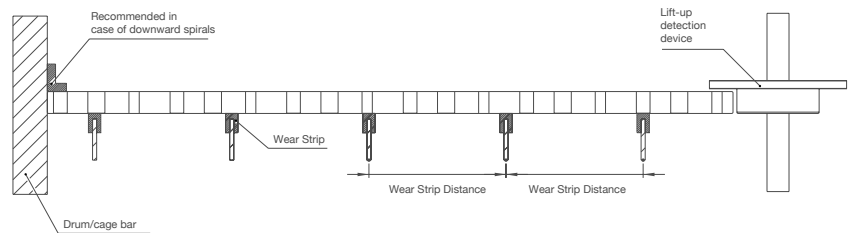
Due to excellent belt width tolerance the lateral gap between belt and guides can be few mm, anyhow it is important to keep into firm consideration the thermal dilatation of the belt that corresponds exactly to the dilatation of the stainless steel pin.

Radius Application

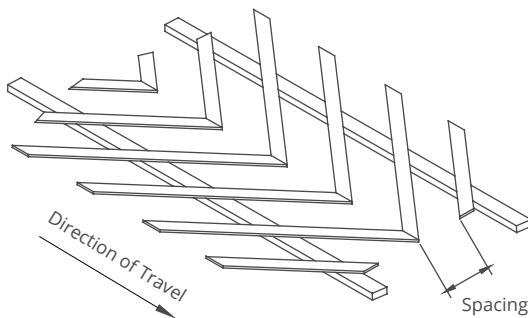


Note: Please contact with your sales representative for suitable wear strip types and location for spiral towers.

Spiral Application

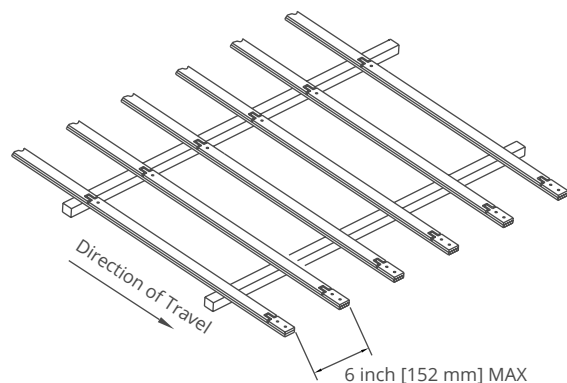


EC508T R Series / Support



Herringbone rails: Modutech recommended.

Flat wear strips in a “V” configuration with the point of the “V” pointing in the direction of travel. Low friction wear strip material preferred to minimize belt wear. Recommended spacing between rails of 100–300mm depending on belt type, load, and other factors. This configuration distributes the wear over the entire belt width.



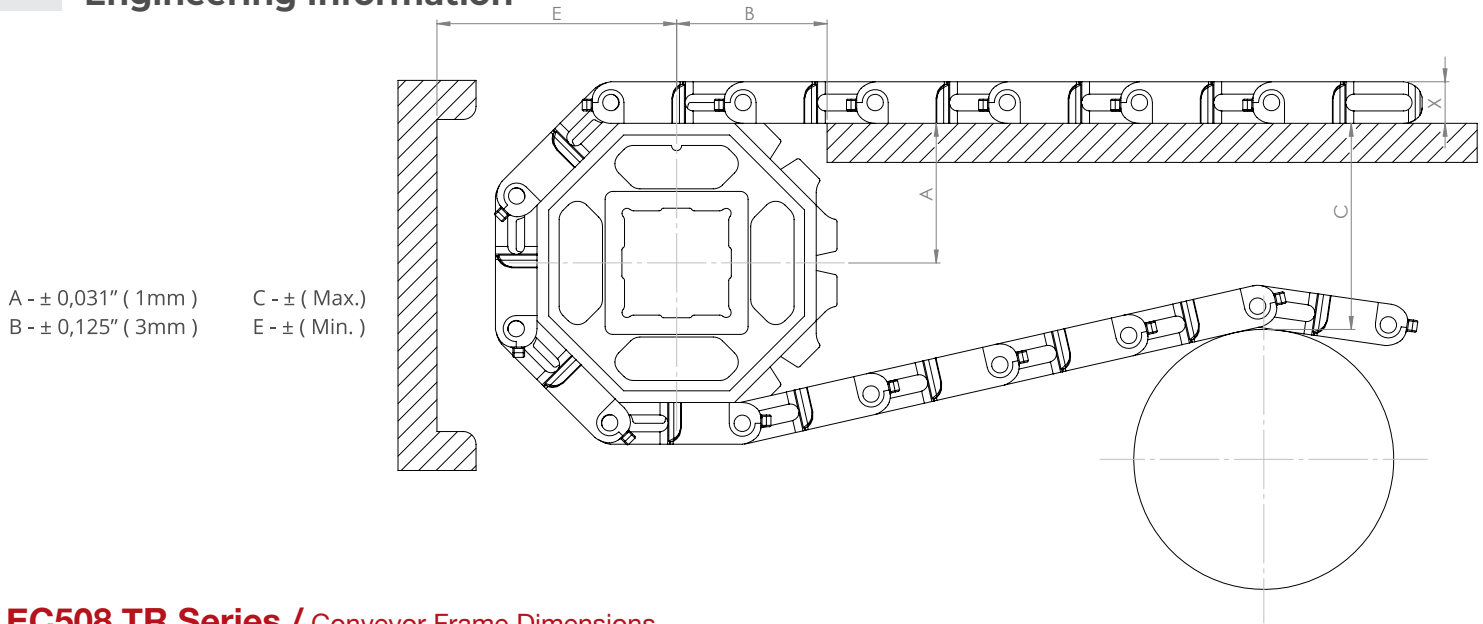
Longitudinal Rails: Flat wear strips the

full length of the conveyor, parallel to each other and perpendicular to the terminal shafts. Low friction wear strip material preferred to minimize belt wear. Recommended spacing between rails of 100-300mm depending on belt type, load, and other factors. This configuration does not distribute wear over the full width of the belt.



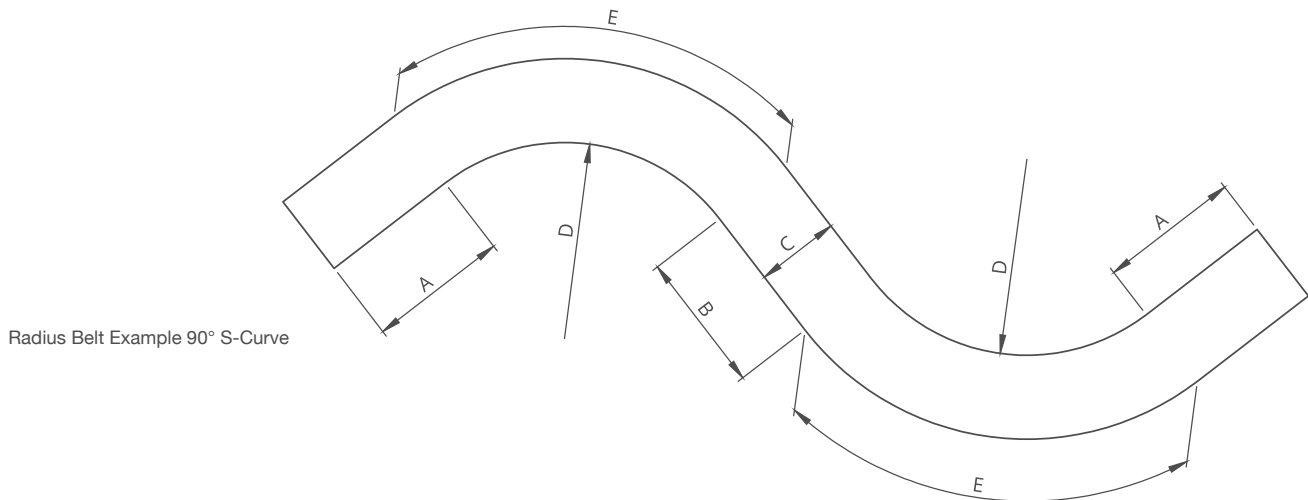
EC508 TR Series

Engineering Information



EC508 TR 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								
EC508 R, EC508T R												
5.1	129,3	8	2.36	60,1	1.85	47,0	4.47	113,5	3.36	85,4	0.63	16,0
5.5	164,3	10	2.96	75,1	2.31	58,7	5.85	141,8	4.01	101,8	0.63	16,0
7.6	193,1	12	3.55	90,1	2.77	70,5	6.70	170,2	4.65	118,1	0.63	16,0
10.2	259,5	16	4.74	120,45	3.74	95	7.48	190,0	6.01	154,2	0.63	16,0



EC508 TR Series / Radius Belt Calculation

- A:** Straight run pull and $n = \text{min. } 1,5 \times \text{belt width}$ recommended
- B:** Straight run between 2 curves = min. $2 \times \text{belt width}$
- 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: 762 mm Radius Belt
Collapse Factor: 2.20

$$\text{D: } 762 \text{ mm} \times 2.20 = 1676,4 \text{ mm}$$

$$\text{A: } 762 (\text{min.})$$

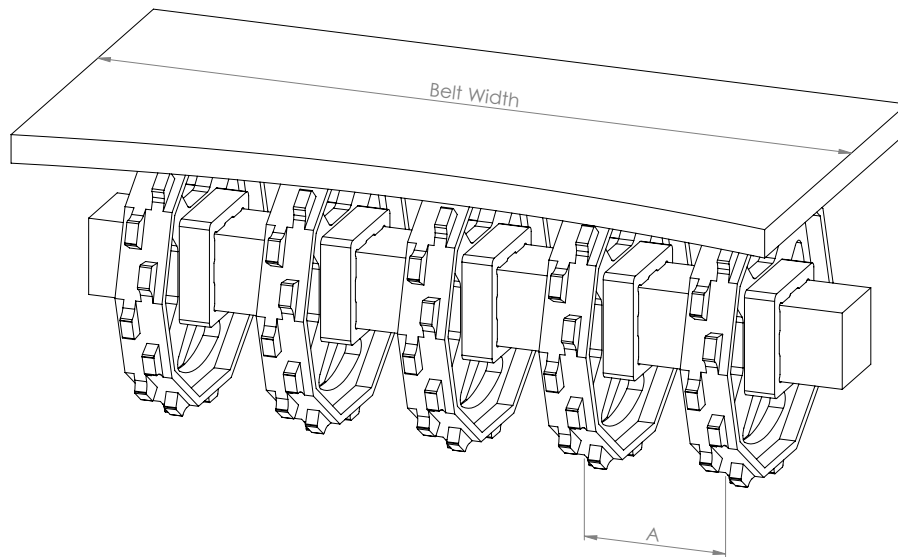
$$\text{B: } 2 \times 762 \text{ mm} = 1524 \text{ mm (min.)}$$

$$\text{E: } \frac{2 \times (C+D) \times 3.14}{4} = 3828,30 \text{ mm}$$

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

EC508 TR Series

Engineering Information



EC508 TR Series / Sprocket & Wearstrip Arrangements

Standard Belt Width		Number of sprockets per shaft	Number of wearstrips		A (mm/inch)	
mm	inch		Carryway	Returnway	Min.	Max.
508,0	20	3	2	2	51 / 2	203 / 8
558,8	22	3	2	2	51 / 2	203 / 8
609,6	24	3	2	2	51 / 2	203 / 8
660,4	26	3	2	2	51 / 2	203 / 8
711,2	28	5	2	2	51 / 2	203 / 8
762,0	30	5	3	2	51 / 2	203 / 8
812,8	32	5	3	2	51 / 2	203 / 8
863,6	34	5	3	2	51 / 2	203 / 8
914,4	36	5	3	2	51 / 2	203 / 8
965,2	38	5	3	2	51 / 2	203 / 8
1016,0	40	5	3	3	51 / 2	203 / 8
1066,8	42	5	3	3	51 / 2	203 / 8
1117,6	44	7	3	3	51 / 2	203 / 8
1168,4	46	7	3	3	51 / 2	203 / 8
1219,2	48	7	3	3	51 / 2	203 / 8
1270,0	50	7	3	3	51 / 2	203 / 8
1320,8	52	7	3	3	51 / 2	203 / 8
1371,6	54	7	3	3	51 / 2	203 / 8
1422,4	56	7	4	3	51 / 2	203 / 8
1473,2	58	7	4	3	51 / 2	203 / 8
1524,0	60	9	4	3	51 / 2	203 / 8

Note:

*The number of sprockets and wearstrips may vary depending on the load.

*For wider belts, central distance of sprockets recommended to be maximum 152,4mm (6") to 203,2mm (8").

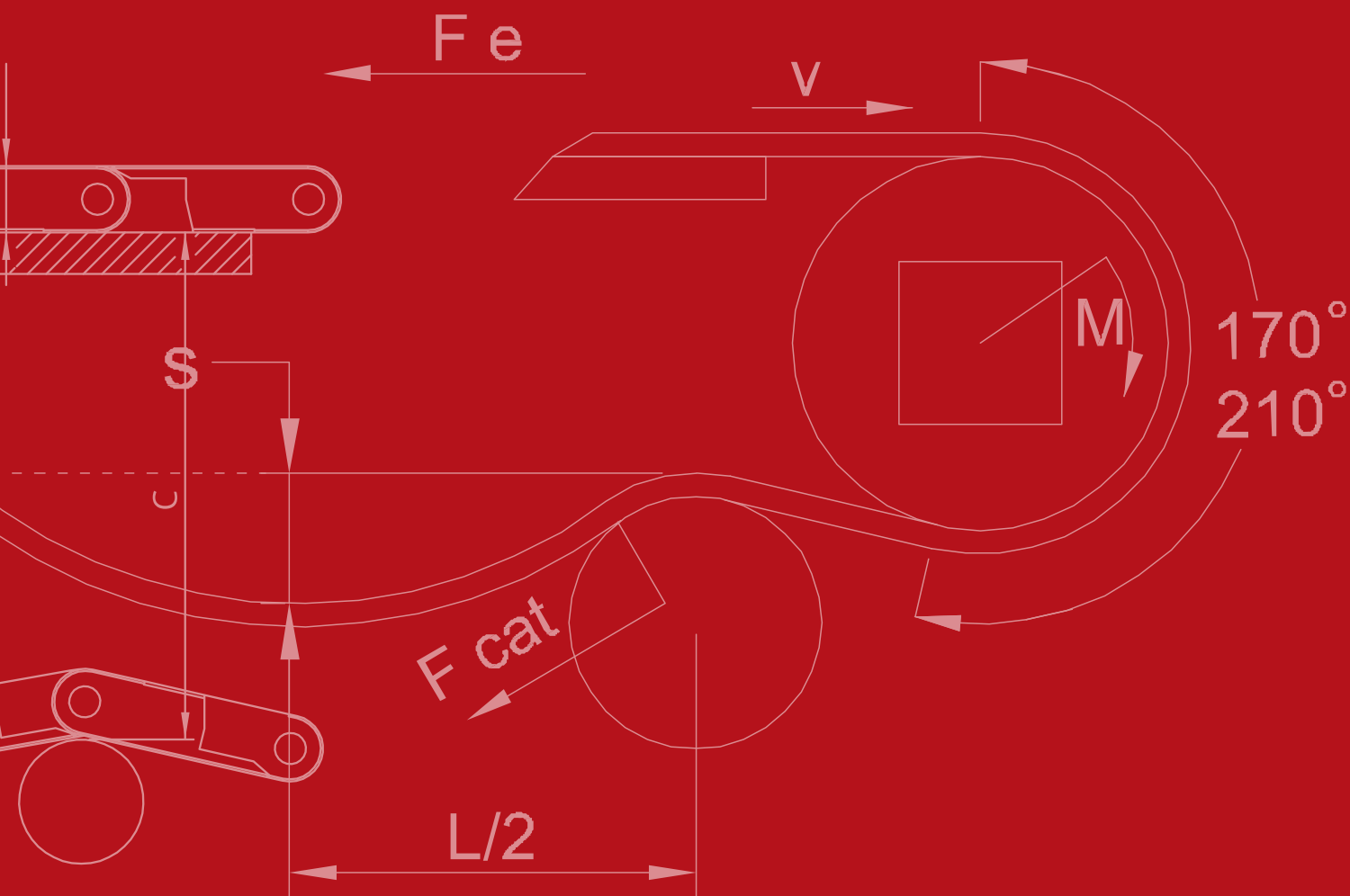
*For wider belts, central distance of carryway & returnway wearstrips may change 304,8mm (12") to 508mm (20").

*Number of sprockets, idlers and wearstrips may vary for spiral applications.

EC508T R Series / Collapse Factors per width for EC508T R Series

Nom. Belt Width (mm)	355,6	406,4	457,2	508,0	558,8	609,6	660,4	711,2	762,0	812,8	863,6	914,4	965,2	1016,0	1066,8	1117,6	1168,4	1219,2	1270,0	1320,8
Nom. Belt Width (inch)	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
Collapse Factor	1,49	1,49	1,49	1,49	1,50	1,51	1,52	1,53	1,53	1,54	1,54	1,55	1,56	1,56	1,57	1,57	1,58	1,60	1,62	1,63
Min. Inner Radius (mm)	529,8	605,5	681,2	756,9	838,2	920,5	1003,8	1088,1	1165,9	1251,7	1329,9	1417,3	1505,7	1585,0	1674,9	1754,6	1846,1	1950,7	2057,4	2152,9
Min. Inner Radius (inch)	20.9	23.8	26.8	29.8	33.0	36.2	39.5	42.8	45.9	49.3	52.4	55.8	59.3	62.4	65.9	69.1	72.7	76.8	81.0	84.8

Standard range of belt width and collapse factor (Min. Inner radius = Collapse factor x Standard belt width)



Engineering Guide

All Products

Engineering Guide

BELT CODE	Bakery	Meat	Poultry	Seafood	Fruit & Vegetables	Snackfood	Beverage & Bottling	Can Manufacturing	Tire Manufacturing	Automotive	Corrugated Cardboard	Packaging	Printing & Paper	Material Handling	Textile	Postal	Intralogistics	Spiral Applications <i>Freezing, Proofing & Cooling</i>
MP80 C	X	X	X	X								X						
MP80 FG	X	X	X	X								X						
MP80 NS	X	X	X	X								X						
MP80 NP	X	X	X	X								X						
EC127 C	X	X	X	X	X	X	X	X	X		X	X	X	X				
EC127 FG	X	X		X	X	X	X	X			X	X		X				
EC127 GT	X	X	X	X	X	X	X	X				X	X	X			X	
MD127 GAP50%	X			X	X										X			
MD127 GAP50%FE	X			X	X							X			X			
HC127 C		X	X		X	X												
SM127 C	X	X		X	X		X	X	X		X							
SM127 FG	X	X	X	X	X		X	X			X		X					
SM127 FG GT	X				X	X						X		X			X	
SM127 CRV	X	X	X	X	X	X						X						
HC152 C	X	X	X	X	X	X						X		X			X	
HC152 FG	X	X	X	X	X	X	X					X		X				
HC152 FG-GT	X	X		X	X	X	X	X			X	X		X			X	
XP254 EVO CR							X				X			X		X	X	
XP254 EVO FLT							X	X		X	X	X		X		X	X	
XP254 C	X	X	X	X	X	X	X	X	X	X		X	X	X				
XP254 PR4%																		
XP254 PR22%		X		X	X	X	X	X							X			
XP254 FG			X	X	X	X			X						X			
XP254 GT						X			X	X		X	X	X		X	X	
XP254 BT							X	X	X		X	X		X		X	X	
EC254 C		X	X		X	X						X		X				
EC254 GT	X	X	X	X	X	X						X	X	X				
EC254 PR16%					X													
EC254 NT		X	X		X													
EC254 CRV22%					X													
HD254 C						X	X	X	X	X	X			X	X			
MD254 FG	X	X	X	X	X	X	X	X	X			X		X	X			
MD254 FG-RT												X		X		X	X	
MD254 C	X	X	X	X	X	X	X	X				X	X	X				
MD254 C-RT							X	X				X		X		X	X	
MD254 GT	X	X	X	X	X	X	X	X				X		X			X	
MD254 RR					X		X	X										
MD254 GAP48%	X			X	X											X		
MD254 GAP48% EHT												X						
SM254 FG50%	X	X	X	X	X	X			X			X						
HC272 C	X	X	X	X	X	X	X	X				X	X	X				
HC272 FG	X	X	X	X	X	X	X	X	X	X		X		X	X			
HC272 GT	X	X	X	X	X	X	X					X		X			X	
HC272 MT				X	X	X	X	X				X						
HC272 OG	X	X	X	X	X	X	X	X	X			X		X			X	
HC272 RR					X		X	X										
MD400 FG					X		X	X	X	X		X		X			X	
EC508 C		X	X	X	X	X						X		X				
EC508 C-RT												X		X		X	X	
EC508 GT												X		X				
EC508 PR22%			X	X	X	X			X			X						
EC508 FG				X	X	X			X			X						
EC508 FG-NT		X	X	X	X	X												
EC508 PR11%					X	X						X						
EC508 PR13%				X	X													
EC508 DT			X	X	X	X												
EC508 NT		X	X	X	X	X												
HC508 C-MTW		X	X	X														
HC508 C		X	X	X	X	X						X		X				
HC508 PR22%			X	X	X	X						X						
HC508 NT		X	X	X	X	X												
HC508 MR	X	X	X	X	X	X						X					X	
MD508 C					X	X			X	X						X		
MD508 C-RT									X	X	X	X		X	X	X	X	
MD508 FG					X	X												
MD508 FG-RT									X	X	X	X		X	X	X	X	
MD508 PR 25%					X	X												
MD508 NS									X	X				X				
HP508 RR					X		X	X				X			X			
HP508 FG										X								
HP508 C					X		X		X	X	X	X		X				
HD635 C									X	X	X		X				X	
EC254 R	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
EC254 R-GT	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
EC254T R	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
HC254 R	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
HC254 R-GT	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
HC254 R-LD	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
HC254 R-HID-LD	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
EC381 R	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
EC508 R	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X
EC508T R	X	X	X	X	X	X	X	X		X		X		X	X	X	X	X

BELT RAW MATERIAL / PINS RAW MATERIAL COMBINATION			
Applications		Belt Modules	Pins
Standart	General Use Dry General Use Wet Chemical Resistance Low Temperature Low Temperature High Load Dry	PP PP PP PE POM POM	PP - POM - PA or PBT POM - PP or PBT PP or PBT PE - POM or PBT PE - POM or PBT PA or PBT
High Temperature	High Load Dry Wet 55 to 108 °C Temperature up to 180 °C	POM PPH (special) PA	PA or PBT PPH (Special) / Steel or PBT PA / Steel or PBT
Abrasive Conditions	Dry Wet up to 55 °C	POM PP	PA or PBT POM or PBT

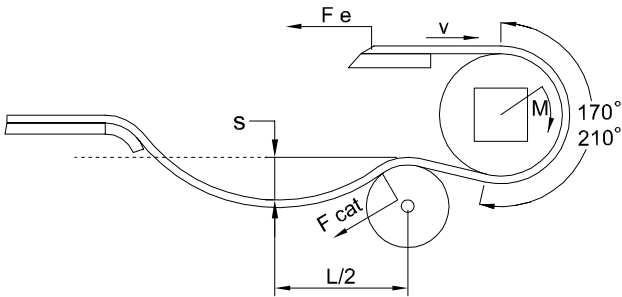
STANDARD BELT MATERIALS WITH MODUTECH CODE				
Material	Description	Code	Food Approved	Temperature
Polypropylene	- Standard material for the most common conveying applications. - Excellent chemical resistance.	PP	FDA - EU	+5 °C to +105 °C
Polyethylene	- Excellent chemical resistance. - Well suited for very low temperature with good impact resistance. - Not suitable for abrasive conditions.	PE	FDA - EU	-70 °C to +65 °C
Polyacetal	- Good strength and low coefficient of friction. - Not suitable for chemical environment. - Suitable for heavy duty applications.	POM	FDA - EU	Dry Conditions -40 °C to +93 °C Wet Conditions -40 °C to +60 °C

STANDARD BELT RAW MATERIALS WITH MODUTECH CODE				
Material	Description	Code	Food Approved	Temperature
Polyamide6	- High strength and abrasion resistance. - Suitable for heavy duty applications. - Not suitable for wet conditions.	PA6	FDA - EU	Dry Conditions -35 °C to +120 °C Wet Conditions Not Recommended
Polyamide6.6	- Better strength and abrasion resistance. - Suitable for heavy duty applications. - Not suitable for wet conditions.	PA6.6	FDA - EU	Dry Conditions -35 °C to +120 °C Wet Conditions Not Recommended
Antistatic Polyacetal	- Reduced electrical surface to reduce belt charge up and dust accumulation. - Suitable for heavy duty applications and low temperature.	POM	-	Dry Conditions -40 °C to +93 °C Wet Conditions -40 °C to +60 °C
Detectable Polyacetal	- Polyacetal with a special additive, which makes the material very well detectable for X-ray and metal detectors.	POM	FDA - EU	Dry Conditions -38 °C to +90 °C
Detectable Polypropylene	- Polypropylene with a special additive, which makes the material very well detectable for X-ray and metal detectors.	PP	FDA - EU	+5 °C to +105 °C
Hot Water Resistant Polypropylene	- Polypropylene with a special additive to improved temperature resistance. - Suitable for wet conditions.	PPH	FDA - EU	+5 °C to +115 °C
Low Friction Acetal	- Better strength and low coefficient of friction. - Not suitable for chemical environment. - Suitable for heavy duty applications.	POM LF	FDA - EU	Dry Conditions -40 °C to +93 °C Wet Conditions -40 °C to +60 °C
High Performance Acetal (PBT)	- Extra wear resistance, strength and, low coefficient of friction. - Not suitable for chemical environment. - Suitable for heavy duty applications.	POM HP	FDA - EU	Dry Conditions -40 °C to +120 °C Wet Conditions -40 °C to +50 °C
Extra High Temperature (EHT)	- Excellent heat resistance. - Suitable for light-medium duty applications at elevated temperatures.	PA EHT	-	Dry Conditions +4 °C to +210 °C Wet Conditions No Request
Flame retardant Polypropylene	- Flame retardant thermoplastic material for low-flammability. - High impacts below 10 °C must be avoided.	PP FR	-	+5 °C to +105 °C
Electrically conductive Polyoxymethylene (Acetal)	- Low electrical surface and volume resistance. - Electrical surface resistivity (ps) below 50'000 Ohm/sq. - High strength and low coefficient of friction. - Suitable for heavy duty applications and low temperatures.	POM EC	-	Dry Conditions -40 °C to +93 °C Wet Conditions No Request
Impact and cut resistant Polyoxymethylene (Acetal)	- Advanced impact and cut resistant surface. - Suitable for meat cutting conveyors and high impact applications. - Good chemical resistance to oil and alkalines, but not suitable for long-term contact with high concentration of acids and chlorine.	POM ICR	FDA - EU	Dry Conditions -40 °C to +93 °C Wet Conditions -40 °C to +60 °C

By its construction, the modular belt length varies according to various factors such as tension, temperature and wear. It is therefore not possible to apply tension to the belt by stretching it between fixed shafts.

Belt tension on the drive sprocket is necessary to avoid the belt jumping on the sprocket itself. This tension is obtained by leaving a portion of belt suspended immediately after the sprocket. This belt portion forms a dip that in addition to providing the return tension (F_{cat}) also allows the recovery of belt elongation between sections.

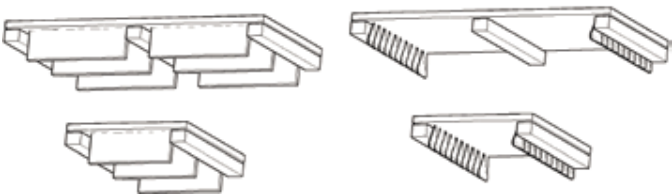
Values "L" and "S" determine the value of F_{cat} . Values of "S" too small or "L" too large lead to excessive belt tension. The belt weight and the geometry of the dip determine F_{cat} . It is also important to ensure that the wrapping angle of the belt on the sprocket is between 170° and 210° .



For a correct belt tension that optimizes the belt wear and tear it is important to verify that the "L" and "S" dimensions are in the following range. The return path of the belt may be supported in different ways or not supported, depending on the belt length.

S Range Suggested Values (mm)					
L (m)	Belt Weight (Kg/m²)				
-	4	8	10	12	14
0,9	20-40	25-60	30-70	40-90	50-100
1,1	25-50	40-90	50-100	60-120	70-130
1,3	30-70	50-100	60-120	70-150	80-160

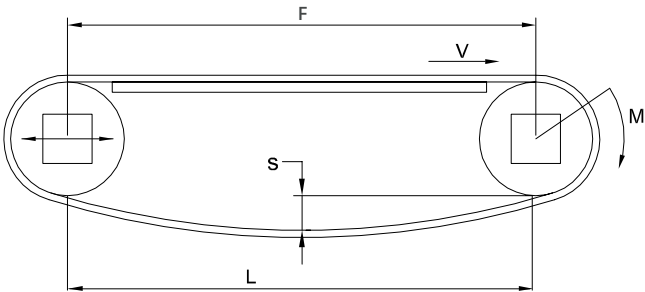
If the belt has guides, it may be necessary to have an indent for the guides in the return path (if it is needed: F over 2 m). In case of particularly wide strips, it is appropriate to provide the interruption of the flights also in the central part to allow the belt suspension with a further guide.



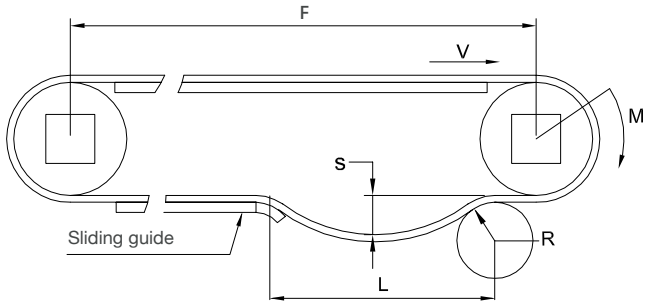
"R" minimum in (mm)	127 Series	254 Series	508 Series
Max. belt width not supported	800	1000	1000

Horizontal Conveyors

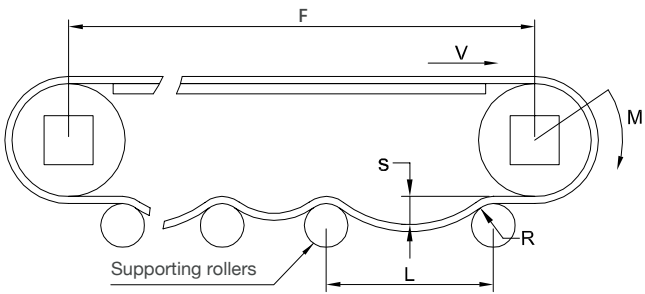
Case of maximum center distance F 2 meters.



Case of center distance F between 2 - 4 meters.



Case of center distance F over 4 meters (if over 20 meters it is suggested a gravity tensioner device after the drive shaft since the belt length variation can be too large to guarantee a correct dip amount).



"R" minimum in (mm)		
Belt Series	Belt with flights	Belt without flights
127 Series	25	120
254 Series	25	150
508 Series	50	200

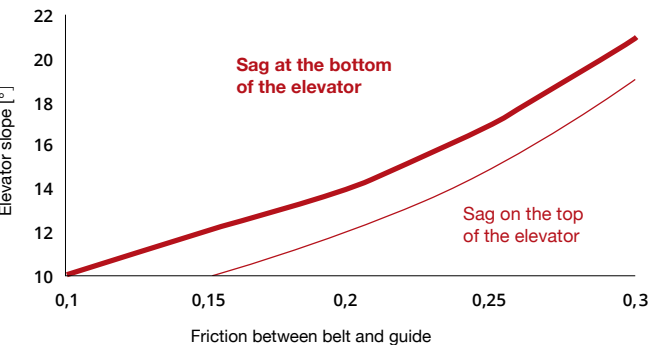
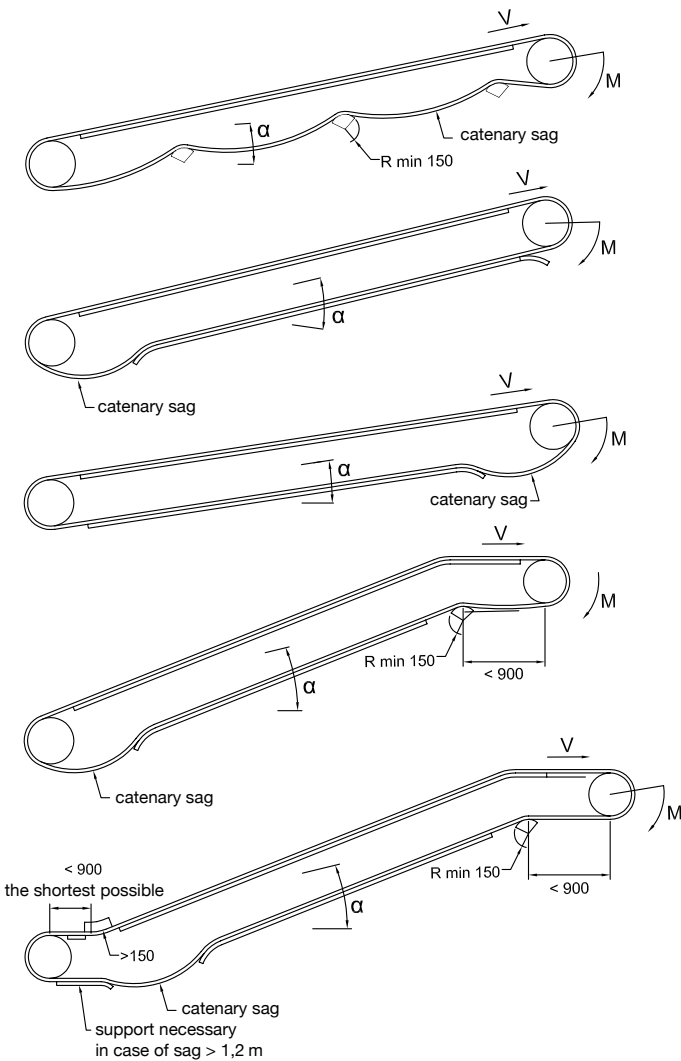
(*) $900 < L < 1200$ mm

It is recommended that the distances between the supporting rollers vary between L_{max} and L_{min} .

Escalators

For all escalator configurations, the guiding principles are still valid, it is necessary to ensure a minimum tension on the return stroke, a dip sufficient for the belt length variation and able to support the belt on the return stroke.

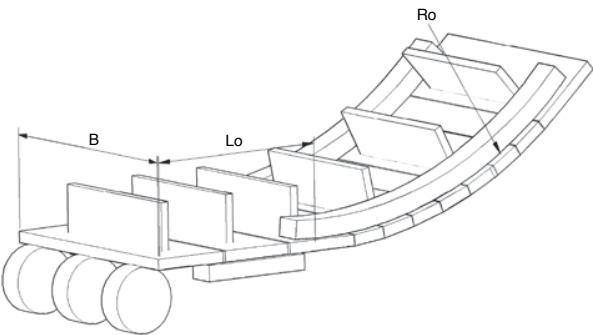
The position of the dip in most cases should be placed at the base of the escalator, but if the friction of the belt is such that it does not allow it to slide on the return path, the dip will be at the top immediately after the drive shaft.



Frequently, belts with guides are used for escalators. In this case, as with horizontal conveyors, the belt edges must allow space for the guides, and if the width exceeds the width limit values, a central support should also be provided.

In case the belt does have sidewalls, the minimum back bending diameters must be checked. In the case of lifting with back bending closed to the driven shaft, the horizontal section has to be as short as possible.

Additionally, since it is not possible to support the belt in the area of the guide, it is suggested to limit the belt width as shown in the following table:



Series	127 Series				254 Series			
Load	<50%		>50%		<50%		>50%	
Length Lo [mm]	<800	800 - 2000	<800	800 - 2000	<800	800 - 2000	<800	800 - 2000
Width B max [mm]								
Slope <45°	1500	1200	1000	800	1200	1000	800	600
Slope >45°	1050	NR	700	NR	850	NR	550	NR

Ro = minimum radius = 150 mm
NR = Not Recommended

Series	508 Series			
Load	<50%		>50%	
Length Lo [mm]	<800	800 - 2000	<800	800 - 2000
Width B max [mm]				
Slope <45°	700	550	500	400
Slope >45°	500	NR	300	NR

Ro = minimum radius = 150 mm
NR = Not Recommended

Horizontal conveyors

• Common drive configuration

Slider support on return way, or rollers alternatively.
For proper sprocket engagement maintain approx.
180° arc of contact.

• Uni-directional drive

One motor (M) at conveyor end, pull action (driving sprockets are pulling the belt). Catenary sag (CA) only required on drive end.

• Lower head drive

For tight transfer with nosebar or with small idling rollers the motor with the drive shaft can be arranged as illustrated.

• Bi-directional drive

Two motors (M), one at each conveyor end. Only one motor is pulling, the other motor remains disengaged (clutch). Catenary sag (CA) at both conveyor ends.

• Bi-directional center drive

Only one motor (M) placed in the middle of the belt return. This system works well for bi-directional conveyors.
In case of high loads a gravity take-up may be necessary for positive sprocket engagement.

Optional solutions: pneumatic or spring-loaded tensioning device.

Solutions: pneumatic or spring-loaded tensioning device.

Center drives are not recommended for radius applications.

Since the driving force is applied on the return way of the belt, the shaft load will be two times the calculated belt pull:

$$F_w = 2 \cdot F'_E$$

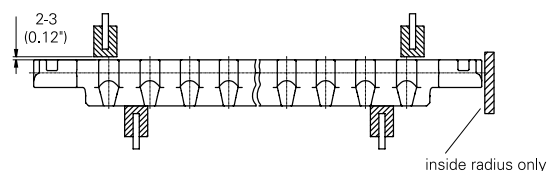
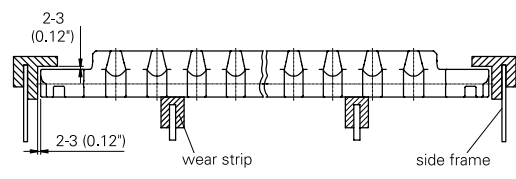
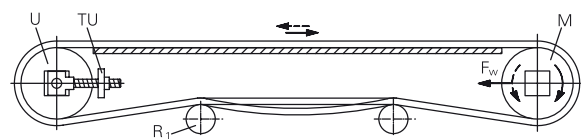
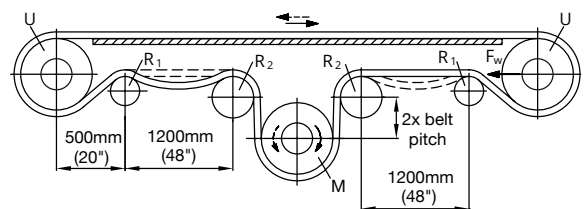
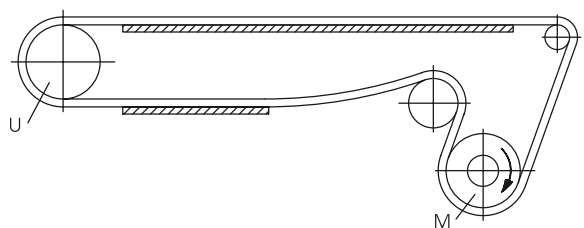
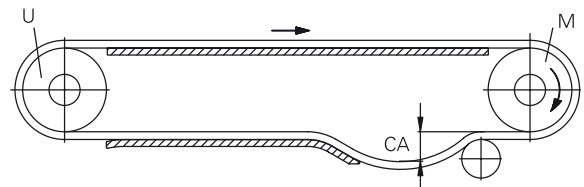
Bi-directional conveyor and pusher drive (push/pull action)
It is possible to apply one head drive motor for bi-directional reversible driving.

For reverse driving (push action = pusher drive), a screw type take-up (TU), or a spring or a pneumatic tensioning device with 110% pretension of the expected belt load is recommended. The shaft load will increase to:

$$F_w = 2.2 \cdot F'_E$$

In case of a bi-directional pusher drive with tensioning device, the shaft load can increase to:

$$F_w = 3.2 \cdot F'_E$$



Belt Guiding

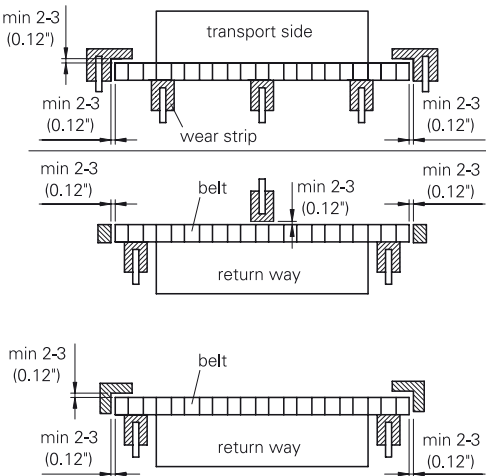
• **Belt guides and hold-down tabs**

Radius belts running around curves are radially pressed against the inner guide rail of the curve. Since the conveyors usually cannot be built at very high geometrical accuracy, the belt may tend to flip over at high loads or angles > 90°. At the inner edge the belt may move upwards while it is radially pressed against the guide rail and slip off.

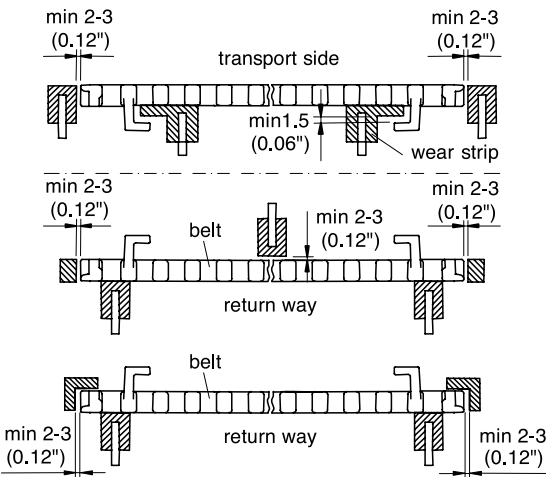
For this reason hold-down edge guides must be used for the in- and outside guide of a curve. If the product is larger than the belt width or if side transfer over the belt edge is required, hold-down modules or side tabs are used instead of hold-down guides.

• **Standard application (hold-down edge guides)**

If no side transfer is required, L-shaped hold-down edge guides can be used. Respect the min. gap between belt and guides. For safety reasons (danger of injuries at end of profile) it is advisable to apply this profile uninterrupted over the complete belt length. The material used for edge guides needs to be low friction in contact with the particular belt material. Generally, UHMW PE is recommended. On the return way, hold-down tabs are needed as well. An economic solution is shown on the illustration beside. For belts wider 600 mm hold-down edge guides or 2 hold-down tabs near the edges should be used.



Hold-down guides for belt with flights. Belts without flights follow the same design.



CONVEYOR LENGTH - MAXIMUM SPEED	
Conveyor Length	Max. Speed
up to 15 m (45 ft)	50 m/min (150 ft/min)
15 m - 25 m (45 - 75 ft)	30 m/min (90 ft/min)
over 25 m (75 ft)	15 m/min (45 ft/min)

• Belts for product side transfer

Belts with hold-down tabs, side tabs or raised deck can be used for all application where products must be moved transversally across the belt edge (side transfer) and in case where the product is wider than the belt itself.

For application with side guards belts with hold-down tabs are conditionally possible and belts with side tabs or raised deck are not applicable.

• Note

The hold-down or side tabs should not be used for radial guidance or to support (guide) the belt on its return way. They can be worn away too quickly.

• High speed applications

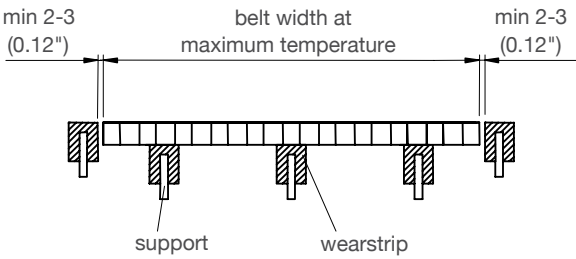
For speeds > 40 m/min it is recommended to use prelubricated materials or stainless steel for radius guides. To keep the temperature low, prefer guide material with best possible heat conduction properties (e. g. PA prelubricated or stainless steel).

• Tensioner

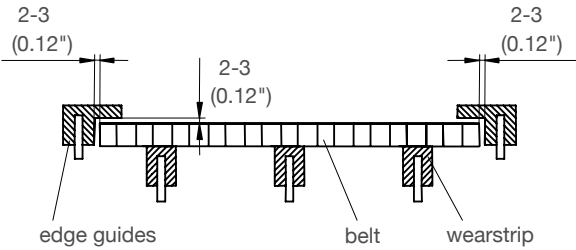
On Z-conveyors catenary sags may not be accepted, neither on the upper nor on the lower horizontal belt section. This may be due to lack of space under the bottom conveyor end or too short horizontal sections. It must be strongly recommended to use a self-adjusting tensioner device.

This can be a soft spring type, gas loaded spring or pneumatic tensioner type. The optimal layout of the spring or pneumatic cylinder is depending on the belt type, conveyor width and temperature conditions. The minimum free movement of the tensioner must be min. 20% more than the calculated belt elongation between lowest and highest process temperature. The belt elongation due to abrasion should also be considered.

For straight running belts:

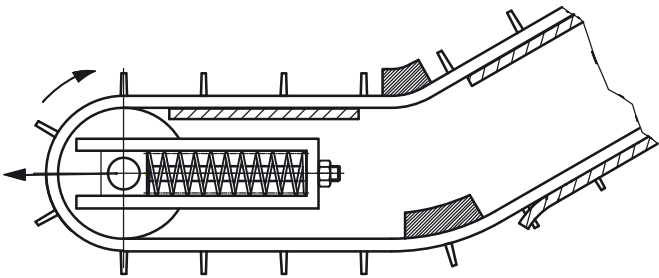


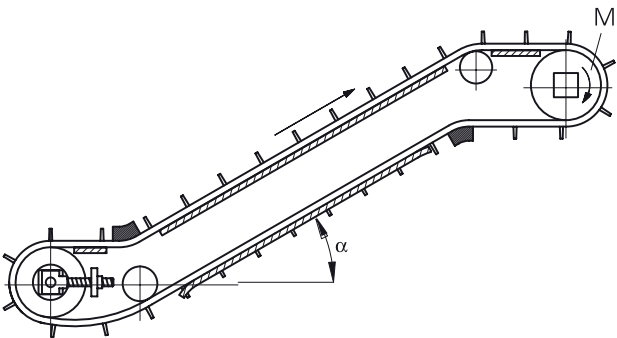
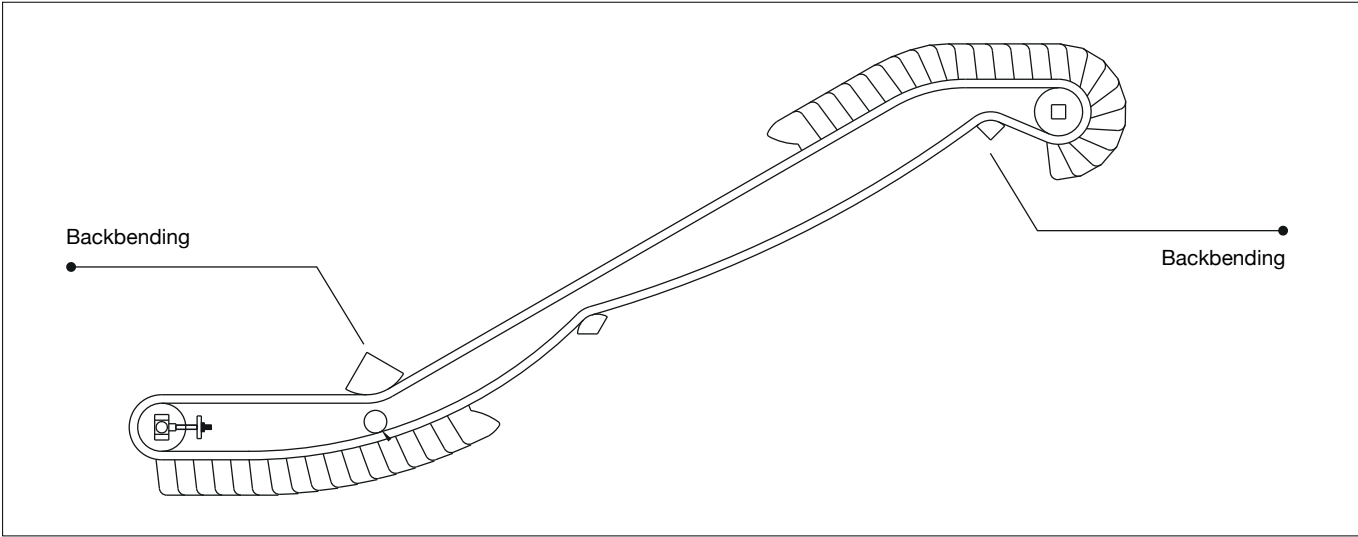
For radius belts:



The force should be as low as possible, but high enough to overcome eventual friction forces of the belt on its return way, to straighten it and to engage the sprockets safely. As a general rule the following tensioner force is proposed:

Belt type	Tensioner force per m(ft) of belt width
127 Series	15 kg / 10 lb
245 Series	15 kg / 10 lb
508 Series	30 kg / 20 lb





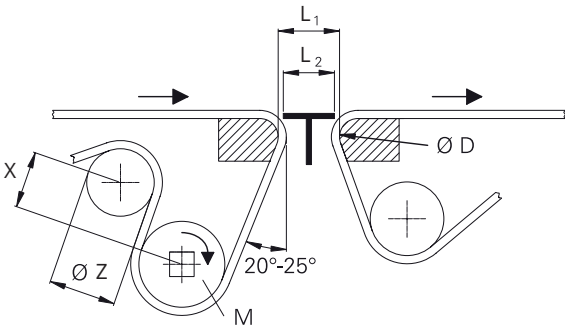
Note: Diameter of return and support rollers and information of backbending radius values, shared on product pages!

Tight transfer

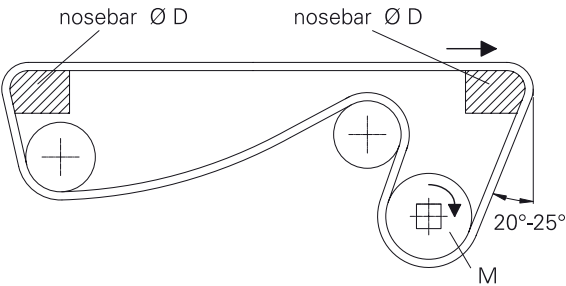
For 127 Series "pitch, "sliding bars" can be used to minimize space between two belts or between belt and table. The sliding bar can be placed on one or both ends of the belt.

The back bending roller should be larger than the regular roller support.

In this case, it is also important to ensure the presence of the dip and the contact arc on the sprockets.



Series	MP80 Series		HC127 & MD127 Series		EC127 Series	
	mm	inch	mm	inch	mm	inch
Minimal backbending roller diameter Z	50,0	2.0	75,0	3.0	75,0	3.0
Minimal straight belt section X between drive and snub roller	50,0	2.0	50,0	2.0	50,0	2.0
Distance L1 between nosebars	16,0	0.6	22,0	0.9	30,0	1.2
Distance L2 Max. width of transport plate	-	-	16,0	0.6	25,0	1.0
Recomended nosebar diameter D	6,0	0.24	12,7	0.5	18,0	0.7



General Sprocket Installation

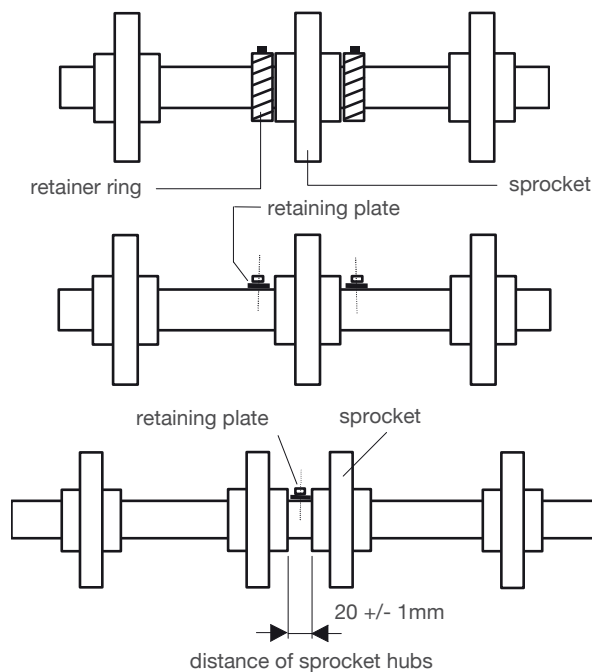
To allow the belt to expand/contract only the central sprocket on each shaft is fixed. For shafts with 2 sprockets, the sprockets on the drive shaft is fixed.

Different locking methods are possible:

- Set the collars and screws
Commonly used in round shafts with keyways
- Retainer Rings
Commonly used in square shafts
- Retaining Plate

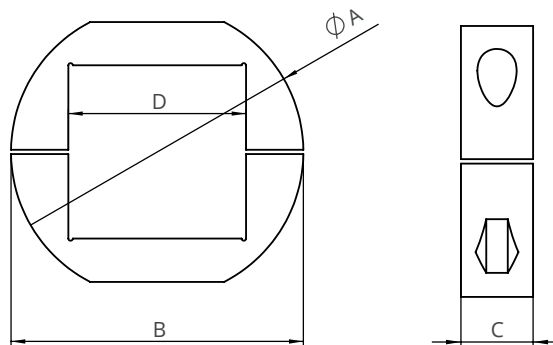
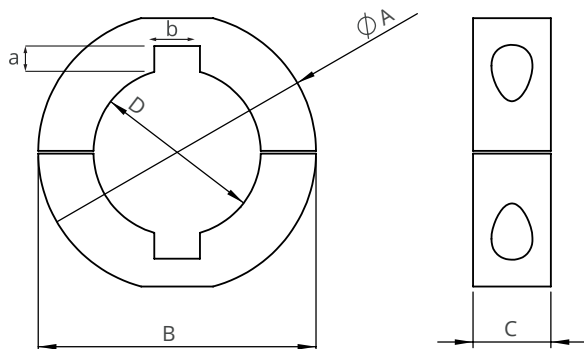
Low cost method for square shafts

There should be 0.3 mm / 0.01 inch between sprocket and retainer ring. Please be sure all the retainer rings securely fastened.



Metric		Keyway Table									
ØD	mm	20,0	25,0	30,0	35,0	40,0	50,0	60,0	70,0	80,0	90,0
a	mm	2,80	3,30	3,30	3,30	3,30	3,80	4,40	4,90	5,40	5,40
b	mm	6,0	8,0	8,0	10,0	12,0	14,0	18,0	20,0	22,0	25,0

Imperial		Keyway Table									
ØD	inch	0.75	1.0	1.25	1.50	2.0	2.50	2.75	3.25	3.50	4.50
a	inch	0.098	0.130	0.130	0.193	0.256	0.319	0.319	0.370	0.429	0.488
b	inch	0.17	0.25	0.25	0.375	0.5	0.625	0.625	0.75	0.875	1.0



Round Bore Clamp Dimensions			
D	A (mm)	B (mm)	C (mm)
SR20	39,0	39,0	14,0
SR25	44,0	44,0	14,0
SR25,4	44,0	44,0	14,0
SR30	50,0	50,0	14,0
SR31,75	50,0	50,0	14,0

Square Bore Clamp Dimensions			
D	A (mm)	B (mm)	C (mm)
SQ25	51,0	51,0	14,0
SQ25,4	51,0	51,0	14,0
SQ38,1	67,5	67,5	16,0
SQ40	67,5	67,5	16,0
SQ60	100,5	100,5	16,0
SQ63,5	100,5	100,5	16,0

Effective Tensile Force

• Horizontal straight belt without accumulation

$$F'_E = (2 m_B + m_P) l_0 \cdot \mu_G \cdot g \text{ [N/m]}$$

• Horizontal straight belt with accumulation, simplified

$$F'_E = [(2 m_B + m_P) l_0 \cdot \mu_G + m_P \cdot \mu_P \cdot l_a] g \text{ [N/m]}$$

• Inclined conveyor without accumulation

$$F'_E = [(2 m_B + m_P) l_1 \cdot \mu_G + m_P \cdot h_0] g \text{ [N/m]}$$

• Inclined conveyor with accumulation, simplified

$$F'_E = [(2 m_B + m_P) l_1 \cdot \mu_G + m_P \cdot \mu_P \cdot l_a + m_P \cdot h_0] g \text{ [N/m]}$$

Further analyses of tensile forces caused by accumulated products above equations with accumulation are based on the simplification that the product load per m² of belt is the same over the accumulation length as when moving with the conveyor. This is generally not the case. In reality the density of the product distribution over the accumulation length l_a will be higher (can be double or 3 times). Since this value will often not be known it is common practice to use the same product load value for product load value for conveying. In this case the above formulas are used. The calculated force is somewhat too low, but normally not critical for straight belts. If the accumulated product load per m² is known, and for more accurate calculation, it is proposed to replace m_P in the term $m_P \cdot \mu_P \cdot l_P$ by m_{Pa}

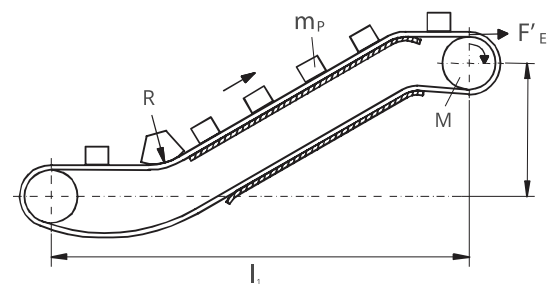
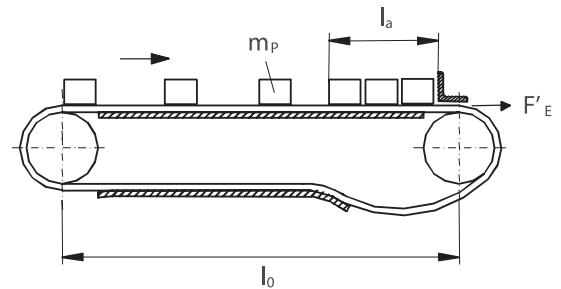
The following formulas result:

• Horizontal straight belt with accumulation

$$F'_E = [(2 m_B + m_P) l_0 \cdot \mu_G + m_{Pa} \cdot \mu_P \cdot l_a] g \text{ [N/m]}$$

• Inclined conveyor with accumulation

$$F'_E = [(2 m_B + m_P) l_1 \cdot \mu_G + m_{Pa} \cdot \mu_P \cdot l_a + m_P \cdot h_0] g \text{ [N/m]}$$



F'_E = Effective tensile force [N/m]
 m_B = Weight of belt [kg/m²]
 m_P = Weight of conveyed product [kg/m²]
 m_{Pa} = Weight of accumulated product [kg/m²]
 μ_G = Coefficient of friction belt to slider support
 μ_P = Coefficient of friction belt to product
 l_0 = Conveying length [m]
 l_a = Length of accumulation [m]
 h_0 = Height of elevation [m]
 g = Acceleration factor due to gravity (9.81 m/s²)

Effective Tensile Force

• Radius belts

Radius belts have higher friction losses than straight belts due to the radial forces directed to the inside of the curve. It also has to be taken into account, that in the belt curves the tensile forces are not distributed over the edge.

For calculation of radius belts please ask your Modutech® representative.

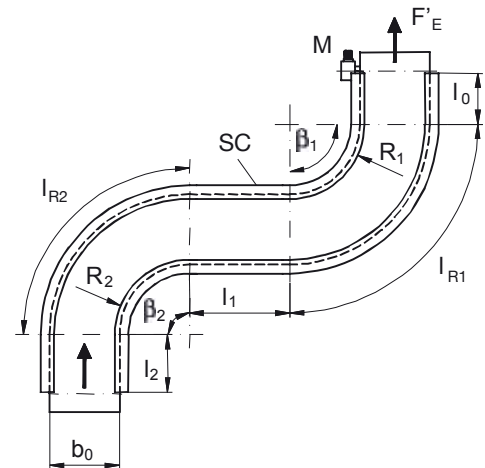
• Note

Due to the concentration of the belt pull (tensile forces) on the outer belt edge at curve end, the applicable number of curves is very limited. In practice 1 to 2 curves are often used. For long radius belts it is advisable to place the curve as near to the idling shaft as possible. This way the belt pull at the outer curve edge is minimized.

• Nominal strength for radius belts in curve

The nominal strength for radius belts in curve increases with wider belts (bigger radius). Due to the smaller angle between the modules the forces are distributed on more links. In case of high loads the application of steel rods may be advisable to increase the belt stiffness. Please contact your **Modutech®** representative for detailed information.

Appropriate quality of the conveyor especially smooth and low coefficient of friction inside wear strips and smooth start-up are important. Belt at return way must be properly held down by wear strips or hold-down tabs .



F_{SR} = Absolute tensile force [N]
 F'_E = Effective tensile force [N/m]
 b_0 = Belt width [m]
 C_s = Service factor

FRICTION FACTORS

Friction Factors	Friction between wearstrip and belt material				Friction between product and belt product material (used in backup conditions)				
Belt Material	UHMW WET (DRY)	HDPE WET (DRY)	NYLATRON WET (DRY)	STEEL (CS & SS) WET (DRY)	GLASS WET (DRY)	STEEL WET (DRY)	PLASTIC WET (DRY)	CARDBOARD WET (DRY)	ALUMINUM WET (DRY)
Polypropylene (S)	0.11 (0.13)	0.09 (0.11)	0.24 (0.25)	0.24 (0.25)	0.18 (0.19)	0.26 (0.32)	0.11 (0.17)	— (0.21)	0.40 (0.40)
Polypropylene (A)	NR	NR	0.29 (0.30)	0.29 (0.30)	0.18 (0.19)	0.26 (0.32)	0.11 (0.17)	— (0.21)	0.40 (0.40)
Polyethylene (S)	0.24 (0.32)	NR	0.14 (0.13)	0.14 (0.13)	0.08 (0.09)	0.10 (0.13)	0.08 (0.08)	— (0.15)	0.20 (0.24)
Acetal (S)	0.10 (0.10)	0.09 (0.08)	0.13 (0.15)	0.13 (0.15)	0.13 (0.14)	0.13 (0.13)	0.13 (0.16)	— (0.18)	0.33 (0.27)
EC Acetal (S)	0.10 (0.10)	0.09 (0.08)	0.13 (0.15)	0.13 (0.15)	0.13 (0.14)	0.19 (0.20)	0.13 (0.16)	— (0.18)	0.33 (0.27)
UV Resistant PP	0.11 (0.13)	0.09 (0.11)	0.24 (0.25)	0.24 (0.25)	0.18 (0.19)	0.26 (0.32)	0.11 (0.17)	— (0.21)	0.40 (0.40)

(S) = Smooth, Clean Conditions. (A) = Abrasive, Dirty Conditions. NR = Not Recommended.

a. Friction factor values are highly dependent on environmental conditions. The low value of the friction factor range is an experimentally derived friction factor for new belting on new wearstrip. This value should only be used in the cleanest environments or where water or other lubricating agents are present. Most applications should be adjusted based on the environmental conditions surrounding the conveyor.

b. Friction Factors for friction between product and belt only apply for Flat Top (Closed), Perforated Flat Top, Nub Top, Flush Grid and Raised Rib belts.

c. Polyethylene is not recommended for container handling.

SERVICE FACTORS

Opening condition Note: Drive with soft start is recommended and is mandatory for frequent start/stops and start-up with full load.	Standard straight belts				Micropitch with nosebar (**)		Radius belt curves with 90° (*)
	Standard head drive	Lower head drive	Pusher drive (uni- and bi-directional)	Center drive (uni- and bi-directional)	Head Side	Both ends	Standard head drive and lower head drive
Start-up prior to loading	1	1.1	1.4	1.2	1.6	2	1.6 (*)
Frequent start/stops during process (more than once per hour)	+ 0.2	+ 0.2	+ 0.2	+ 0.2	+ 0.2	+ 0.2	+ 0.2
Z-conveyors inclination <20° hold-down shoes only hold-down tabs	+ 0.2 + 0.3	+ 0.2 + 0.3	+ 0.2 + 0.3	+ 0.2 + 0.3	+ 0.2 + 0.3	+ 0.2 + 0.3	+ 0.2 + 0.3
inclination 20°-60° hold-down shoes only hold-down tabs	+ 0.4 + 0.6	+ 0.4 + 0.6	+ 0.4 + 0.6	+ 0.4 + 0.6	+ 0.4 + 0.6	+ 0.4 + 0.6	+ 0.4 + 0.6
inclination 60°-70° hold-down shoes only hold-down tabs	+ 1.1 + 1.4	+ 1.1 + 1.4	+ 1.1 + 1.4	+ 1.1 + 1.4	+ 1.1 + 1.4	+ 1.1 + 1.4	+ 1.1 + 1.4
inclination 70°-90° hold-down shoes only hold-down tabs	+ 1.8 + 2.2	+ 1.8 + 2.2	+ 1.8 + 2.2	+ 1.8 + 2.2	+ 1.8 + 2.2	+ 1.8 + 2.2	+ 1.8 + 2.2
Speed greater 30 m/min					+ 0.2	+ 0.2	+ 0.2

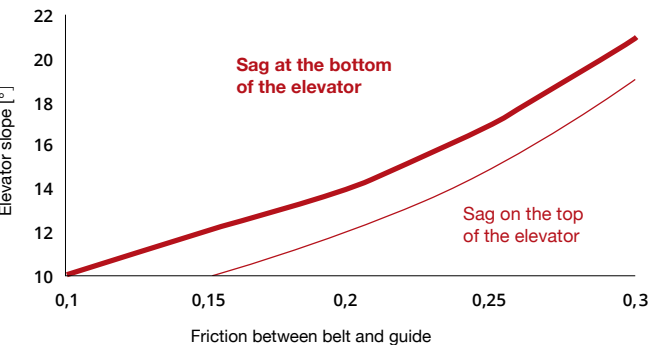
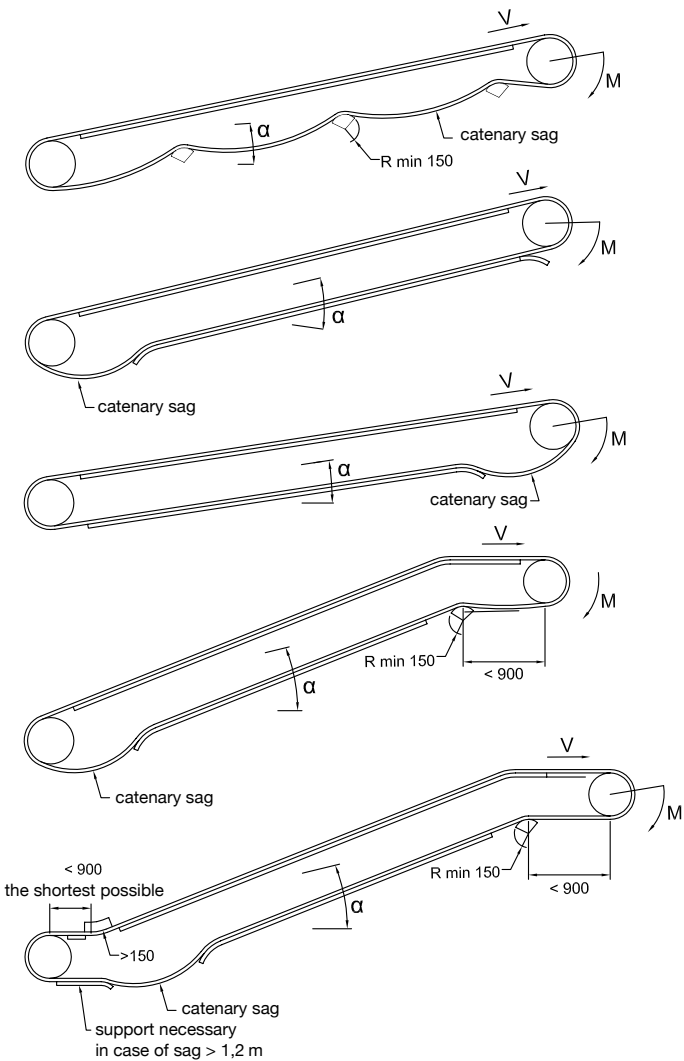
(*) The radius belt service factor depends on the angle of the curve.

(**) Z-conveyors with nosebar are not recommended.

Escalators

For all escalator configurations, the guiding principles are still valid, it is necessary to ensure a minimum tension on the return stroke, a dip sufficient for the belt length variation and able to support the belt on the return stroke.

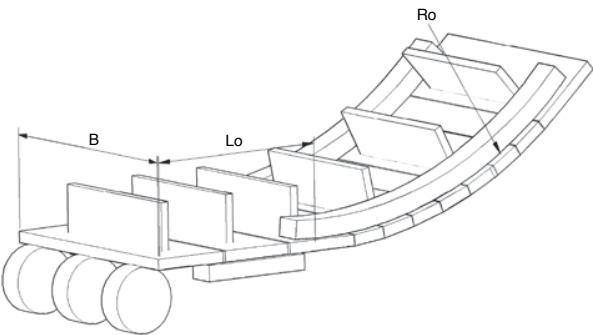
The position of the dip in most cases should be placed at the base of the escalator, but if the friction of the belt is such that it does not allow it to slide on the return path, the dip will be at the top immediately after the drive shaft.



Frequently, belts with guides are used for escalators. In this case, as with horizontal conveyors, the belt edges must allow space for the guides, and if the width exceeds the width limit values, a central support should also be provided.

In case the belt does have sidewalls, the minimum back bending diameters must be checked. In the case of lifting with back bending closed to the driven shaft, the horizontal section has to be as short as possible.

Additionally, since it is not possible to support the belt in the area of the guide, it is suggested to limit the belt width as shown in the following table:



Series	127 Series				254 Series			
Load	<50%		>50%		<50%		>50%	
Length Lo [mm]	<800	800 - 2000	<800	800 - 2000	<800	800 - 2000	<800	800 - 2000
Width B max [mm]								
Slope <45°	1500	1200	1000	800	1200	1000	800	600
Slope >45°	1050	NR	700	NR	850	NR	550	NR

Ro = minimum radius = 150 mm
NR = Not Recommended

Series	508 Series			
Load	<50%		>50%	
Length Lo [mm]	<800	800 - 2000	<800	800 - 2000
Width B max [mm]				
Slope <45°	700	550	500	400
Slope >45°	500	NR	300	NR

Ro = minimum radius = 150 mm
NR = Not Recommended

Code:
 = good resistance
 * = conditionally / sometimes resistant
 X = not resistant (not to be used)

[illegible]

Code:
 = good resistance
 * = conditionally / sometimes resistant
 X = not resistant (not to be used)

[illegible]

Code:
 = good resistance
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[illegible]

Code:
 = good resistance
 * = conditionally / sometimes resistant
 X = not resistant (not to be used)

[illegible]

The data presented in the following table are based on the information given by the polymer raw material manufacturers and Modutech field experiences. It is a recommendation only, not a guarantee. It does not relieve of a qualification test of the products for your application. In individual cases the stability of the material in the questionable medium is to be examined.

Code:

= good resistance

* = conditionally / sometimes resistant

X = not resistant (not to be used)

Designation of chemical	Poly- propylene (PP)		Poly- ethylene (PE)		Polyoxy- methylene (POM)		Polyamide (PA)		Extra High Temperature Material (EHT)			Thermo- plastic Poly- urethane (TPU)		Thermo- plastic elastomer (TPE)		Flame retardant Polybuty- leneter- ephthalate (PBT)	
	20 °C (70 °F)	60 °C (140 °F)	20 °C (70 °F)	60 °C (140 °F)	20 °C (70 °F)	60 °C (140 °F)	20 °C (70 °F)	60 °C (140 °F)	20 °C (70 °F)	60 °C (140 °F)	93 °C (200 °F)	20 °C (70 °F)	60 °C (140 °F)	20 °C (70 °F)	60 °C (140 °F)	20 °C (70 °F)	60 °C (140 °F)
Sodium Chlorite		*					X	X									
Sodium Hydroxide – 60%							X	X				*		*		X	
Sodium Hypochlorite – 5%		*		*	X	X	*		*	*	*						*
Stearic Acid		*			*												
Sulfamic Acid – 20%					X	X											
Sulfate Liquors																	
Sulfur																	
Sulfur Chloride																	
Sulfur Dioxide					X	X	*	*									
Sulfuric Acid – 10%						X	X	X		*	X	*					
Sulfuric Acid – 50%					X	X	X	X	*	X	X	*				*	
Sulfuric Acid – 70%		*		*	X	X	X	X	X	X	X	*				X	
Sulfurous Acid							*	*									
Tannic Acid – 10%																	
Tartaric Acid								*									
Tetrahydrofuran	*	X			*	*											
Toluene	X	X	X	X	*	X						*					X
Transformer Oil		*		*										X			
Tributyl Phosphate		*															
Trichloroacetic Acid			*				X	X									
Trichloroethylene	X	X	X	X	*	*	*	X				X				*	X
Tricresyl Phosphate		*															
Trisodium Phosphate																	
Turpentine	*	X		X								*					
Urea																	
Vinegar												*					
Wine																	
Xylene	X	X	X	X								*				*	X

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Highest Quality

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Notes



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or sprockets (sizes/bores) are guaranteed to be in stock and
may have extended lead times.

Please check with Beltservice Corporation for local availability.

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