MODUTECH®

XP254

Modular Belt Series

XP254 C
XP254 PR %22
XP254 FG
Sprockets & Accessories
Engineering Information



www.modutech.com.tr

FDA





XP254 C

Modular Belt Series

- ***Seafood Applications***

Inspection Tables, Grading Lines, Trim Lines

- ***Bakery Applications***

Row 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 - Depallettizing

- ***Printing and Paper Applications***

Printing Machine Outfeed, Wrapping Machine Outfeed

- ***Beverages and Botteling Applications***

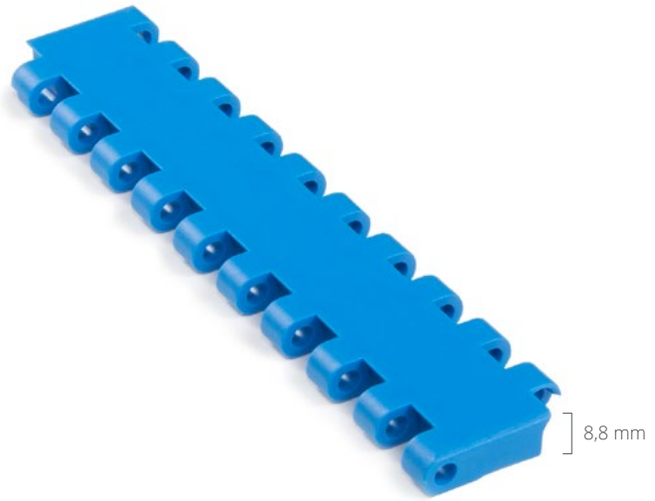
Can Palletizing and Depalletizing, Glass Palletizing and Depalletizing, Pet Palletizing and Depalletizing

- ***Material Handling Applications***

Incline Applications, Palletizers, Packaging Lines

XP254 C

Pitch:	25,4 mm / **1 inch**
Belt Surface:	Close, Smooth Surface
Minimum Width:	50 mm / **1.97 inch**
Open Area (%):	0%
Flight:	Yes (T25, T50, T75, T100)
Sidewall:	Yes (h=25 mm, h=50 mm, h=75 mm, h=100 mm)
Rod:	Ø4,5 mm / **0.177 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	8.8 mm / **0.346 inch**



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.

Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 76,2 mm / **3 inch** module

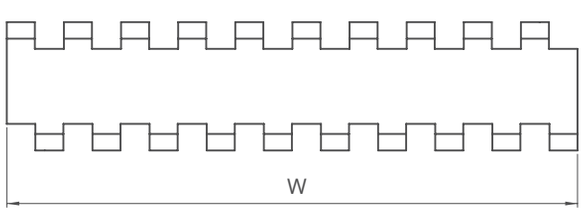
XP254 C / Technical Information

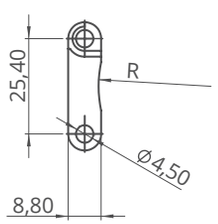
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Polypropylene	18400	**1260.80**	-	-	+5 / **+41**	+90 / **+194**	5,50 / **1.13**
Polyethylene	9100	**623.55**	-	-	-73 / **-99.4**	+66 / **+150.8**	5,80 / **1.19**
Acetal	32100	**2199.55**	-	-	-43 / **-45.4**	+110 / **+230**	7,90 / **1.62**

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

XP254 C / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	inch	mm	inch	
XP254 C	152,4	**6.0**	152,4	**6.0**	± 0,5 mm
XP254 C	228,6	**9.0**	228,6	**9.0**	± 2 mm
XP254 C	304,8	**12.0**	304,8	**12.0**	± 2 mm
XP254 C	381,0	**15.0**	381,0	**15.0**	± 3 mm
XP254 C	457,2	**18.0**	457,2	**18.0**	± 3 mm
XP254 C	533,4	**21.0**	533,4	**21.0**	± 3 mm
XP254 C	609,6	**24.0**	609,6	**24.0**	± 3 mm
XP254 C	685,8	**27.0**	685,8	**27.0**	± 4 mm
XP254 C	762,0	**30.0**	762,0	**30.0**	± 4 mm
XP254 C	838,2	**33.0**	838,2	**33.0**	± 4 mm
XP254 C	914,4	**36.0**	914,4	**36.0**	± 4 mm
XP254 C	990,6	**39.0**	990,6	**39.0**	± 4 mm
XP254 C	1066,8	**42.0**	1066,8	**42.0**	± 4 mm
XP254 C	1143,0	**45.0**	1143,0	**45.0**	± 4 mm





- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.



XP254 PR%22

Modular Belt Series

- ***Meat and Poultry Applications***

General Conveyance and Breading 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***

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

XP254 PR%22

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Pitch:	25,4 mm / **1 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	50 mm / **1.97 inch**
Open Area (%):	22%. (Biggest opening 9,44 x 3 mm)
Flight:	Yes (T25, T50, T75, T100)
Sidewall:	Yes (h=25 mm, h=50 mm, h=75 mm, h=100 mm)
Rod:	Ø4,5 mm / **0.177 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	8,8 mm / **0.346 inch**



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.

Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 76,2 mm / **3 inch** module

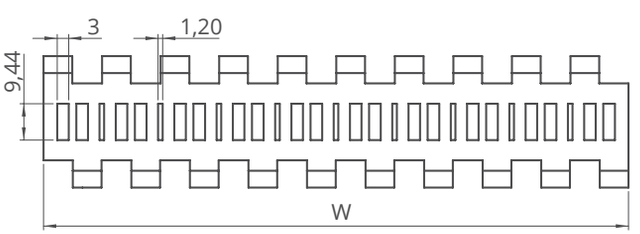
XP254 PR%22 / Technical Information

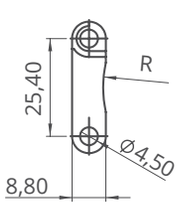
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Polypropylene	18400	**1260.80**	-	-	+5 / **+41**	+90 / **+194**	5,50 / **1.13**
Polyethylene	9100	**623.55**	-	-	-73 / **-99.4**	+66 / **+150.8**	5,80 / **1.19**
Acetal	32100	**2199.55**	-	-	-43 / **-45.4**	+110 / **+230**	7,90 / **1.62**

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

XP254 PR%22 / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
XP254 PR22	152,4	**6.0**	152,4	**6.0**	± 0,5 mm
XP254 PR22	228,6	**9.0**	228,6	**9.0**	± 2 mm
XP254 PR22	304,8	**12.0**	304,8	**12.0**	± 2 mm
XP254 PR22	381,0	**15.0**	381,0	**15.0**	± 3 mm
XP254 PR22	457,2	**18.0**	457,2	**18.0**	± 3 mm
XP254 PR22	533,4	**21.0**	533,4	**21.0**	± 3 mm
XP254 PR22	609,6	**24.0**	609,6	**24.0**	± 3 mm
XP254 PR22	685,8	**27.0**	685,8	**27.0**	± 4 mm
XP254 PR22	762,0	**30.0**	762,0	**30.0**	± 4 mm
XP254 PR22	838,2	**33.0**	838,2	**33.0**	± 4 mm
XP254 PR22	914,4	**36.0**	914,4	**36.0**	± 4 mm
XP254 PR22	990,6	**39.0**	990,6	**39.0**	± 4 mm
XP254 PR22	1066,8	**42.0**	1066,8	**42.0**	± 4 mm
XP254 PR22	1143,0	**45.0**	1143,0	**45.0**	± 4 mm





- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.



XP254 FG

Modular Belt Series

- **Seafood Applicaitons**

Breading 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

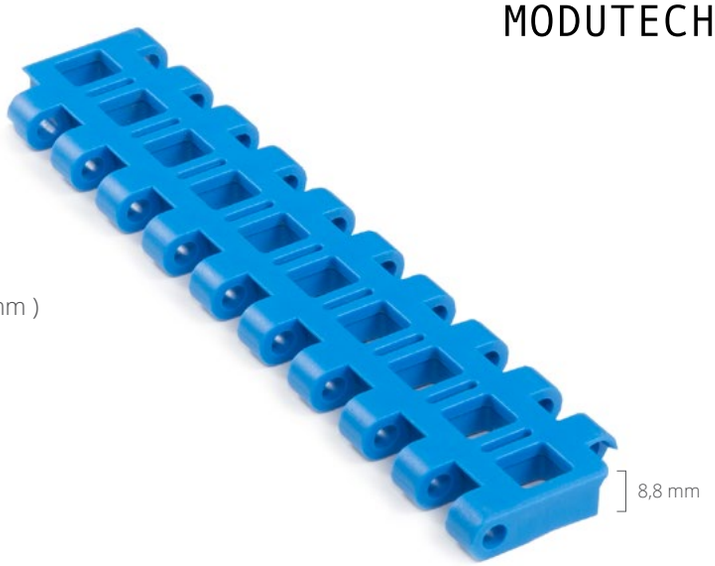
- **Textile Applications**

Cutter, Dyeing

XP254 FG

MODUTECH

Pitch:	25,4 mm / **1 inch**
Belt Surface:	Open, Smooth Surface
Minimum Width:	50 mm / **1.97 inch**
Open Area (%):	28%. (Biggest opening 8,44 x 9,44 mm)
Flight:	Yes (T25, T50, T75, T100)
Sidewall:	Yes (h=25 mm, h=50 mm, h=75 mm, h=100 mm)
Rod:	Ø4,5 mm / **0.177 inch** - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Good
Belt Thickness:	8,8 mm / **0.346 inch**



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.

Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 76,2 mm / **3 inch** module

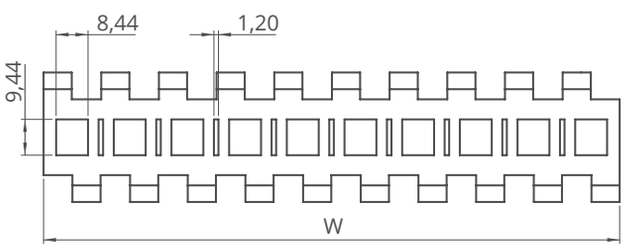
XP254 FG / Technical Information

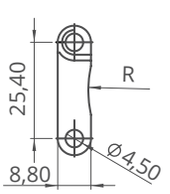
BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / **°F** (min.)	°C / **°F** (max.)	Kg/m² / **lb/ft²**
	N/m	**lb/ft**	N/m	**lb/ft**			
Polypropylene	18400	**1260.80**	-	-	+5 / **+41**	+90 / **+194**	5,50 / **1.13**
Polyethylene	9100	**623.55**	-	-	-73 / **-99.4**	+66 / **+150.8**	5,80 / **1.19**
Acetal	32100	**2199.55**	-	-	-43 / **-45.4**	+110 / **+230**	7,90 / **1.62**

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

XP254 FG / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	**inch**	mm	**inch**	
XP254 FG	152,4	**6.0**	152,4	**6.0**	± 0,5 mm
XP254 FG	228,6	**9.0**	228,6	**9.0**	± 2 mm
XP254 FG	304,8	**12.0**	304,8	**12.0**	± 2 mm
XP254 FG	381,0	**15.0**	381,0	**15.0**	± 3 mm
XP254 FG	457,2	**18.0**	457,2	**18.0**	± 3 mm
XP254 FG	533,4	**21.0**	533,4	**21.0**	± 3 mm
XP254 FG	609,6	**24.0**	609,6	**24.0**	± 3 mm
XP254 FG	685,8	**27.0**	685,8	**27.0**	± 4 mm
XP254 FG	762,0	**30.0**	762,0	**30.0**	± 4 mm
XP254 FG	838,2	**33.0**	838,2	**33.0**	± 4 mm
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XP254 FG	990,6	**39.0**	990,6	**39.0**	± 4 mm
XP254 FG	1066,8	**42.0**	1066,8	**42.0**	± 4 mm
XP254 FG	1143,0	**45.0**	1143,0	**45.0**	± 4 mm



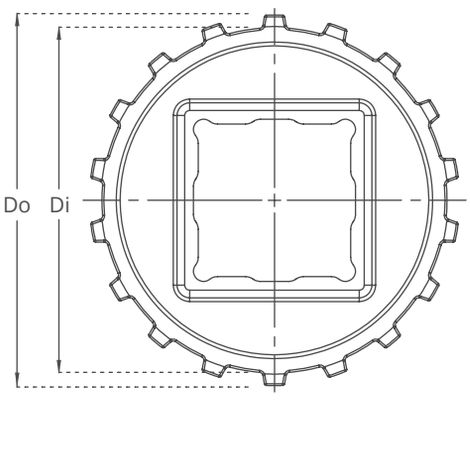


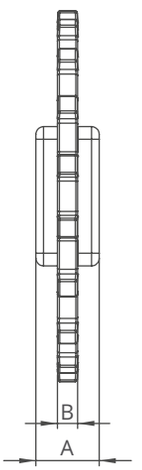
- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- Please contact with customer service for precise belt measurements.

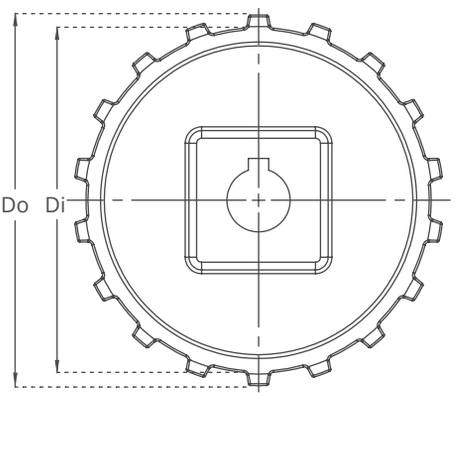
XP254 Series *Sprockets and Technical Specifications*

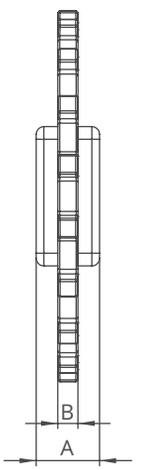












- Split moulded sprockets are available for XP254 Z15 & Z18!

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 / **1**	25 / **1**	25-30 / **1-1.25**	XP254SQZ8*PA	XP254SRZ8*PA
Z10	71,6 / **2.82**	82,5 / **3.25**	8 / **0.31**	25 / **1**	40 / **1.5**	25-30 / **1-1.25**	XP254SQZ10*PA	XP254SRZ10*PA
Z12	89,0 / **3.50**	99,5 / **3.92**	8 / **0.31**	25 / **1**	40 / **1.5**	25-30 / **1-1.25**	XP254SQZ12*PA	XP254SRZ12*PA
Z15	114,0 / **4.49**	124,0 / **4.88**	8 / **0.31**	25 / **1**	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 / **1**	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 avaliable for each size.**



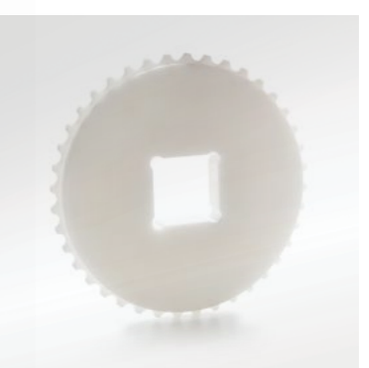
Clamp



Machined Split Sprocket



Moulded Sprocket



Machined Sprocket

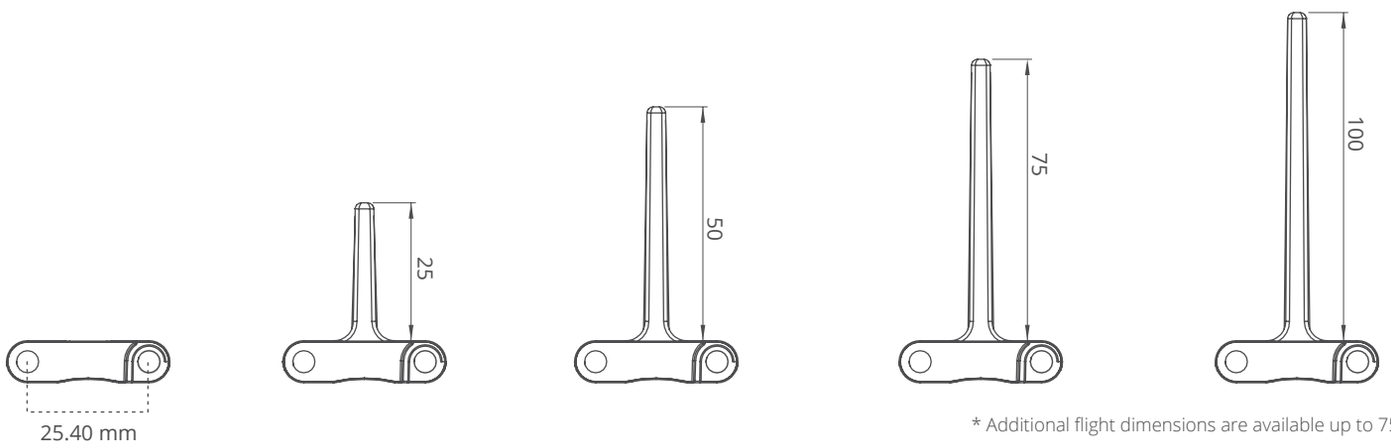
XP254 Series *Accessories and Technical Specifications*

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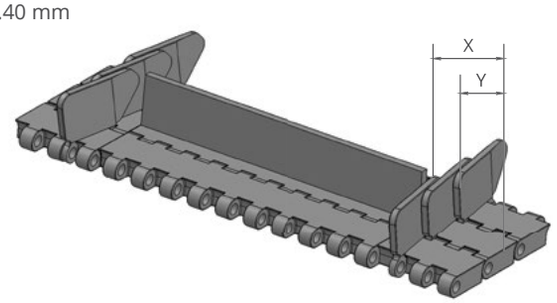


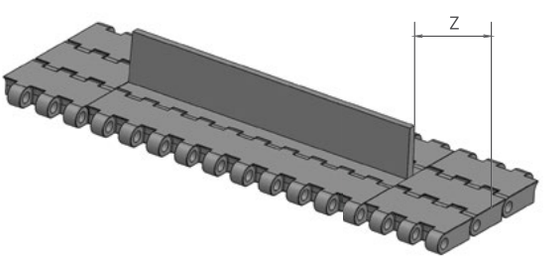
XP254 Series / Flight & Sidewall Dimensions

XP254 Series / Flights & Sidewalls				
PRODUCT CODE	Flight Height (mm/**inch**)	Flight Width (mm/**inch**)	PRODUCT CODE	Sidewall Height (mm/**inch**)
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**



* Additional flight dimensions are available up to 75 mm.





XP254 Series / Sidewall Technical Specifications

Possible Sidewall and Flight Indents	X		Y	
	mm	**inch**	mm	**inch**
Standard, no module cutting	24,0	**0.94**	15,0	**0.59**
Module cutting necessary	32,0	**1.26**	22,0	**0.87**
Standard, no module cutting	40,0	**1.57**	30,0	**1.18**
Module cutting necessary	48,0	**1.89**	37,0	**1.46**
Standard, no module cutting	56,0	**2.20**	45,0	**1.77**
Module cutting necessary	64,0	**2.52**	53,0	**2.09**

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

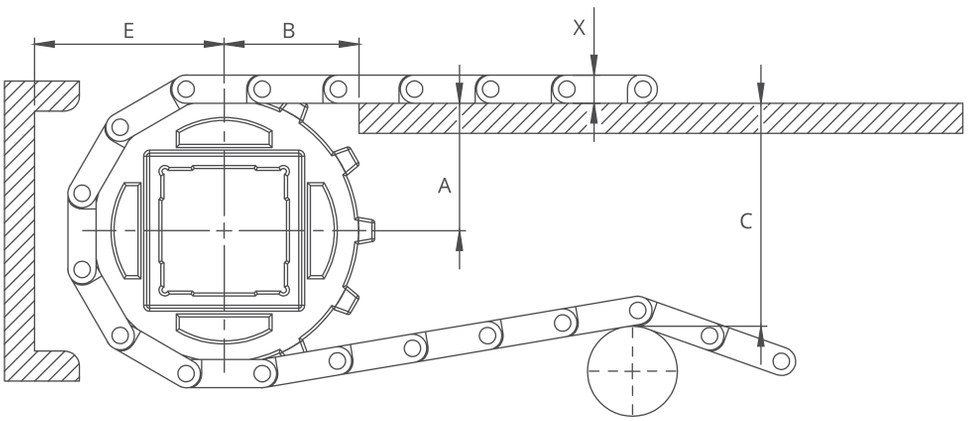
XP254 Series / Flight Technical Specifications

Possible Flight Indents for XP254 Series	Z	
	mm	**inch**
Standard, module cutting	15,0	**0.59**
Standard, no module cutting	30,0	**1.18**
Standard, no module cutting	45,0	**1.77**
Standard, module cutting	60,0	**2.36**
Standard, no module cutting	76,0	**2.99**

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

XP254 Series *Engineering Information*

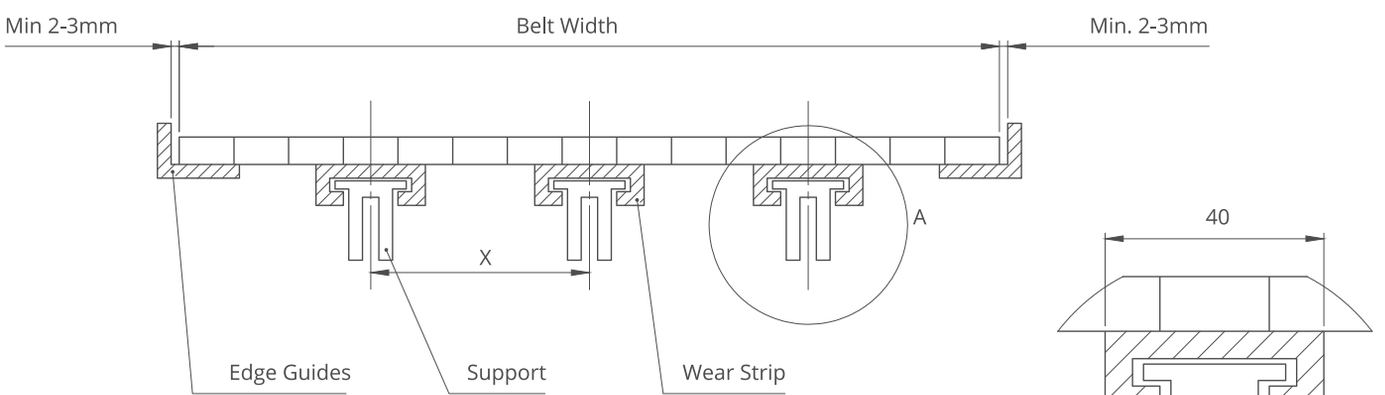
A - ± 0,031" (1mm)
B - ± 0,125" (3mm)
C - ± (Max.)
E - ± (Min.)



XP254 Series / Conveyor Frame Dimensions

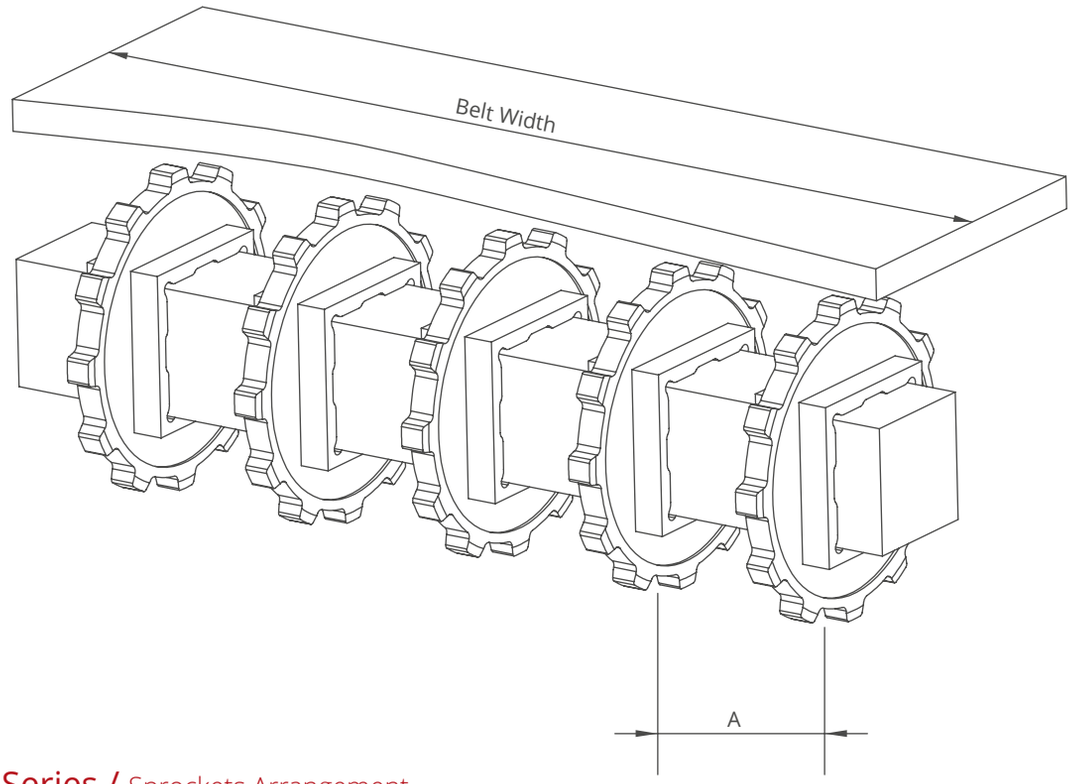
Sprockets Description			A		B		C		E		X	
Pitch Diameter		No.Teeth	Range (Bottom to Top)									
inch	mm		**inch**	mm	**inch**	mm	**inch**	mm	**inch**	mm	**inch**	mm
XP254 FLT CR, XP254 C, XP254 FG, XP254 PR%22												
2.32	59,0	8	**1.17**	29,8	**1.44**	36,5	**1.94**	49,3	**1.91**	48,6	**0.35**	8,8
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 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 Series / Slider Support System For Straight Running Belts



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

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



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.