

# EC254

*Modular Belt Series*

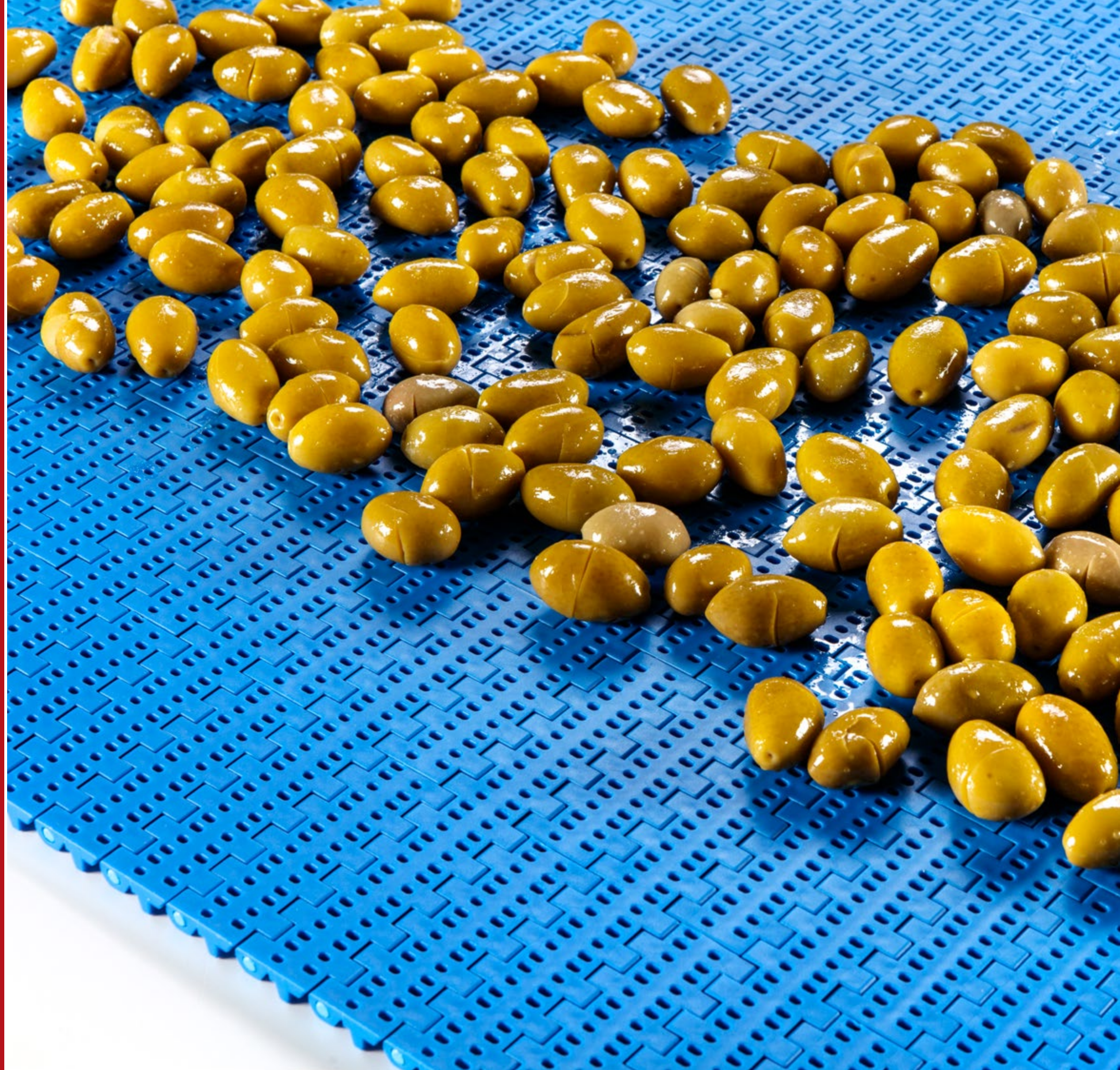
*EC254 C*

*EC254 PR%16*

*EC254 NT*

*Sprockets & Accessories*

*Engineering Information*



# EC254 C

Pitch:	25,4 mm / <b>1 inch</b>
Belt Surface:	Close, Smooth Surface
Minimum Width:	152,4 mm / <b>6 inch</b>
Open Area (%):	0%
Flight:	Yes ( T25, T50, T75, TC75, TCH75, T100, TNC50, TNC100 )
Sidewall:	Yes ( h=25 mm, h=50 mm, h=75 mm, h=100 mm )
Rod:	Ø5 mm / <b>0.197 inch</b> - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Excellent
Belt Thickness:	10 mm / <b>0.394 inch</b>



## Product Features and Functional Benefits

- Easy to clean reduces downtime for cleaning time 70%.
- Unique sprocket engagement - higher product load and longer conveyors.
- Close transfer applications.
- Reduces bacteria growth.

## Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 76,2 mm / **3 inch** module
- 45 mm / **1.77 inch** module
- 30 mm / **1.18 inch** module

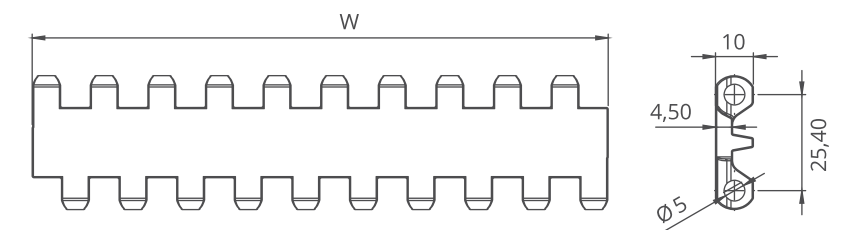
## EC254 C / Technical Information

BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / °F (min.)	°C / °F (max.)	Kg/m <sup>2</sup> / lb/ft <sup>2</sup>
	N/m	lb/ft	N/m	lb/ft			
Polypropylene	15400	<b>1055</b>	-	-	+5 / <b>+41</b>	+90 / <b>+194</b>	4,9 / <b>1.00</b>
Polyethylene	9240	<b>603</b>	-	-	-73 / <b>-99.4</b>	+66 / <b>+150.8</b>	5,2 / <b>1.05</b>
Acetal	25150	<b>1723</b>	-	-	-43 / <b>-45.4</b>	+110 / <b>+230</b>	7,3 / <b>1.49</b>

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

## EC254 C / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	inch	mm	inch	
EC254 C	152,4	<b>6.0</b>	152,4	<b>6.0</b>	± 0,5 mm
EC254 C	228,6	<b>9.0</b>	228,6	<b>9.0</b>	± 2 mm
EC254 C	304,8	<b>12.0</b>	304,8	<b>12.0</b>	± 2 mm
EC254 C	381,0	<b>15.0</b>	381,0	<b>15.0</b>	± 3 mm
EC254 C	457,2	<b>18.0</b>	457,2	<b>18.0</b>	± 3 mm
EC254 C	533,4	<b>21.0</b>	533,4	<b>21.0</b>	± 3 mm
EC254 C	609,6	<b>24.0</b>	609,6	<b>24.0</b>	± 3 mm
EC254 C	685,8	<b>27.0</b>	685,8	<b>27.0</b>	± 4 mm
EC254 C	762,0	<b>30.0</b>	762,0	<b>30.0</b>	± 4 mm
EC254 C	838,2	<b>33.0</b>	838,2	<b>33.0</b>	± 4 mm
EC254 C	914,4	<b>36.0</b>	914,4	<b>36.0</b>	± 4 mm
EC254 C	990,6	<b>39.0</b>	990,6	<b>39.0</b>	± 4 mm
EC254 C	1066,8	<b>42.0</b>	1066,8	<b>42.0</b>	± 4 mm
EC254 C	1143,0	<b>45.0</b>	1143,0	<b>45.0</b>	± 4 mm



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

# EC254 C

## Modular Belt Series

### • Meat (Beef and Pork) Applications

Fat - Trim Lines, General Conveyance, 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

Row Dough Handling, Cooling Lines, Packing Lines

### • Snack Food Applications

Corn Processing

### • Fruits and Vegetables Applications

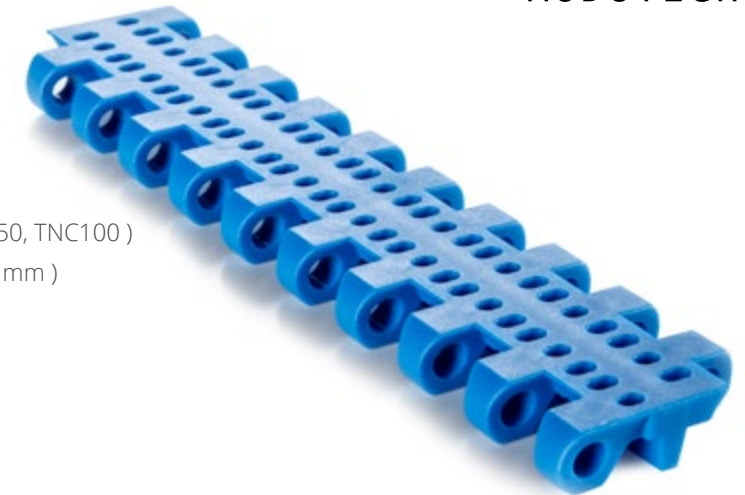
Bulk Feeding, Elevator, Control - Sorting Table

### • Packaging Applications

Labelling, Palletizing - Depalletizing

# EC254 PR%16

Pitch:	25,4 mm / <b>1 inch</b>
Belt Surface:	Open, Smooth Surface
Minimum Width:	152,4 mm / <b>6 inch</b>
Open Area (%):	16%. ( Biggest opening 2,5 x 4,5 mm )
Flight:	Yes ( T25, T50, T75, TC75, TCH75, T100, TNC50, TNC100 )
Sidewall:	Yes ( h=25 mm, h=50 mm, h=75 mm, h=100 mm )
Rod:	Ø5 mm / <b>0.197 inch</b> - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Excellent
Belt Thickness:	10 mm / <b>0.394 inch</b>



## 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%.
- Reduces bacteria growth.

## Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 76,2 mm / **3 inch** module
- 45 mm / **1.77 inch** module
- 30 mm / **1.18 inch** module

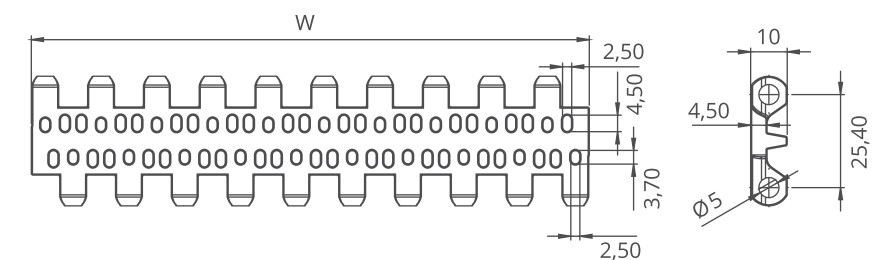
## EC254 PR%16 / Technical Information

BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / °F (min.)	°C / °F (max.)	Kg/m² / lb/ft²
	N/m	lb/ft	N/m	lb/ft			
Polypropylene	12100	<b>828</b>	-	-	+5 / <b>+41</b>	+90 / <b>+194</b>	4,5 / <b>0.92</b>
Polyethylene	7700	<b>527</b>	-	-	-73 / <b>-99.4</b>	+66 / <b>+150.8</b>	4,7 / <b>0.96</b>
Acetal	19800	<b>1356</b>	-	-	-43 / <b>-45.4</b>	+110 / <b>+230</b>	6,5 / <b>1.33</b>

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

## EC254 PR%16 / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	inch	mm	inch	
EC254 PR16	152,4	<b>6.0</b>	152,4	<b>6.0</b>	± 0,5 mm
EC254 PR16	228,6	<b>9.0</b>	228,6	<b>9.0</b>	± 2 mm
EC254 PR16	304,8	<b>12.0</b>	304,8	<b>12.0</b>	± 2 mm
EC254 PR16	381,0	<b>15.0</b>	381,0	<b>15.0</b>	± 3 mm
EC254 PR16	457,2	<b>18.0</b>	457,2	<b>18.0</b>	± 3 mm
EC254 PR16	533,4	<b>21.0</b>	533,4	<b>21.0</b>	± 3 mm
EC254 PR16	609,6	<b>24.0</b>	609,6	<b>24.0</b>	± 3 mm
EC254 PR16	685,8	<b>27.0</b>	685,8	<b>27.0</b>	± 4 mm
EC254 PR16	762,0	<b>30.0</b>	762,0	<b>30.0</b>	± 4 mm
EC254 PR16	838,2	<b>33.0</b>	838,2	<b>33.0</b>	± 4 mm
EC254 PR16	914,4	<b>36.0</b>	914,4	<b>36.0</b>	± 4 mm
EC254 PR16	990,6	<b>39.0</b>	990,6	<b>39.0</b>	± 4 mm
EC254 PR16	1066,8	<b>42.0</b>	1066,8	<b>42.0</b>	± 4 mm
EC254 PR16	1143,0	<b>45.0</b>	1143,0	<b>45.0</b>	± 4 mm



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

# EC254 PR%16

## 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

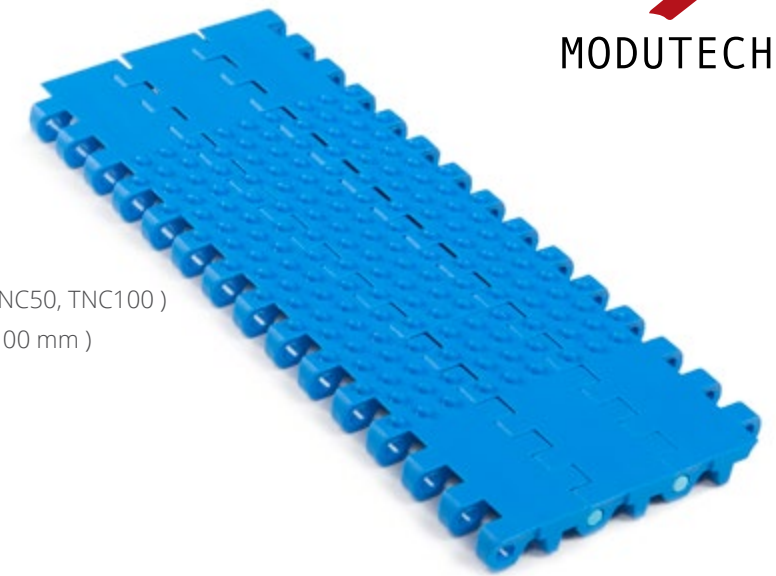
Including Raw Dough Handling, Cooling Lines,

Icing Lines, Packing Lines, Metal Detectors



## EC254 NT

Pitch:	25,4 mm / <b>1 inch</b>
Belt Surface:	Close, Nub Top Surface
Minimum Width:	152,4 mm / <b>6 inch</b>
Open Area (%):	0%
Flight:	Yes ( T25, T50, T75, TC75, TCH75, T100, TNC50, TNC100 )
Sidewall:	Yes ( h=25 mm, h=50 mm, h=75 mm, h=100 mm )
Rod:	Ø5 mm / <b>0.197 inch</b> - Self Lock
Approved:	FDA and EU
Curve:	No
Color:	Additional colors available
Cleanability:	Excellent
Belt Thickness:	12 mm / <b>0.472 inch</b>



### Product Features and Functional Benefits

- Easy to clean reduces downtime for cleaning time 70%.
- Reduces bacteria growth.
- Non-adhesive due to reduced contact surface.
- Close transfer applications.

### Available Moulded Module Sizes

- 152,4 mm / **6 inch** module
- 152,4 mm / **6 inch** edge module with 45 mm indent

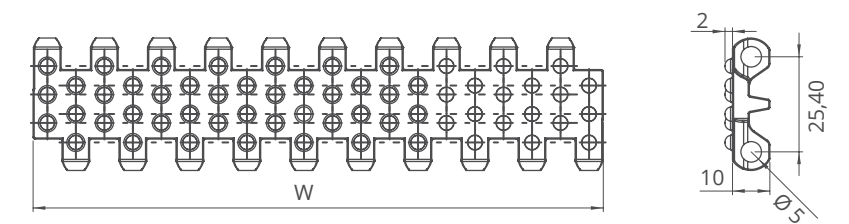
### EC254 NT / Technical Information

BELT MATERIAL	BELT STRENGTH				TEMPERATURE		BELT WEIGHT
	Straight		Curve		°C / °F (min.)	°C / °F (max.)	Kg/m <sup>2</sup> / lb/ft <sup>2</sup>
	N/m	lb/ft	N/m	lb/ft			
Polypropylene	15400	<b>1055</b>	-	-	+5 / <b>+41</b>	+90 / <b>+194</b>	5,1 / <b>1.05</b>
Polyethylene	8800	<b>603</b>	-	-	-73 / <b>-99.4</b>	+66 / <b>+150.8</b>	5,4 / <b>1.11</b>
Acetal	25150	<b>1723</b>	-	-	-43 / <b>-45.4</b>	+110 / <b>+230</b>	7,7 / <b>1.57</b>

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

### EC254 NT / Standard Belt Widths

BELT SERIES	WIDTH (W)				Belt With Tolerance (max.)
	PP-PE		POM		
	mm	inch	mm	inch	
EC254 NT	152,4	<b>6.0</b>	152,4	<b>6.0</b>	± 0,5 mm
EC254 NT	228,6	<b>9.0</b>	228,6	<b>9.0</b>	± 2 mm
EC254 NT	304,8	<b>12.0</b>	304,8	<b>12.0</b>	± 2 mm
EC254 NT	381,0	<b>15.0</b>	381,0	<b>15.0</b>	± 3 mm
EC254 NT	457,2	<b>18.0</b>	457,2	<b>18.0</b>	± 3 mm
EC254 NT	533,4	<b>21.0</b>	533,4	<b>21.0</b>	± 3 mm
EC254 NT	609,6	<b>24.0</b>	609,6	<b>24.0</b>	± 3 mm
EC254 NT	685,8	<b>27.0</b>	685,8	<b>27.0</b>	± 4 mm
EC254 NT	762,0	<b>30.0</b>	762,0	<b>30.0</b>	± 4 mm
EC254 NT	838,2	<b>33.0</b>	838,2	<b>33.0</b>	± 4 mm
EC254 NT	914,4	<b>36.0</b>	914,4	<b>36.0</b>	± 4 mm
EC254 NT	990,6	<b>39.0</b>	990,6	<b>39.0</b>	± 4 mm
EC254 NT	1066,8	<b>42.0</b>	1066,8	<b>42.0</b>	± 4 mm
EC254 NT	1143,0	<b>45.0</b>	1143,0	<b>45.0</b>	± 4 mm



- Standard belt increments 76,2 mm.
- Non-standard belt increments 15,2 mm.
- 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

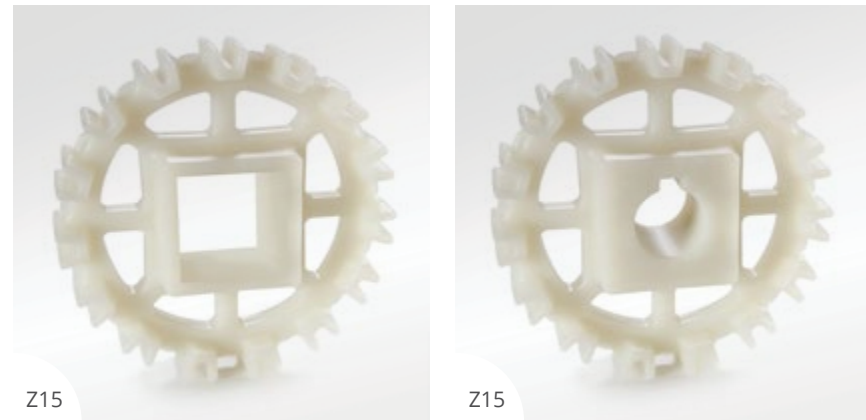
### • Seafood Applications

Control Tables, Glazing

### • Fruits and Vegetables

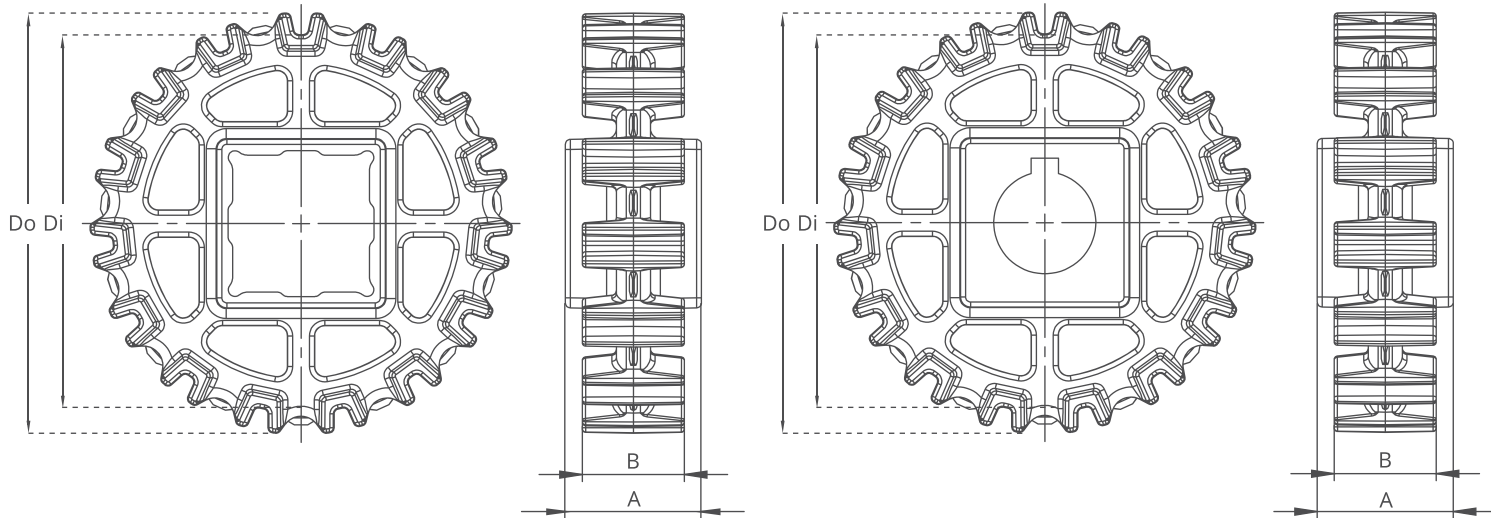
Including Elevator

# EC254 Series Sprockets and Technical Specifications



Z15

Z15



## EC254 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	51,6 / 2.03	64,6 / 2.54	30 / 1.18	40 / 1.57	25 / 1	25 / 1	EC254SQZ8*POM	EC254SRZ8*POM
Z10	68,8 / 2.71	81,8 / 3.22	30 / 1.18	40 / 1.57	40 / 1.5	25-30 / 1-1.25	EC254SQZ10*POM	EC254SRZ10*POM
Z12	85,5 / 3.37	98,8 / 3.89	30 / 1.18	40 / 1.57	40 / 1.5	25-30 / 1-1.25	EC254SQZ12*POM	EC254SRZ12*POM
Z15	111,1 / 4.37	124,1 / 4.89	30 / 1.18	40 / 1.57	40 / 1.5	25-30 / 1-1.25	EC254SQZ15*POM	EC254SRZ15*POM
Z18	136,1 / 5.36	149,1 / 5.87	30 / 1.18	40 / 1.57	40 / 1.5	25-30 / 1-1.25	EC254SQZ18*POM	EC254SRZ18*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.**



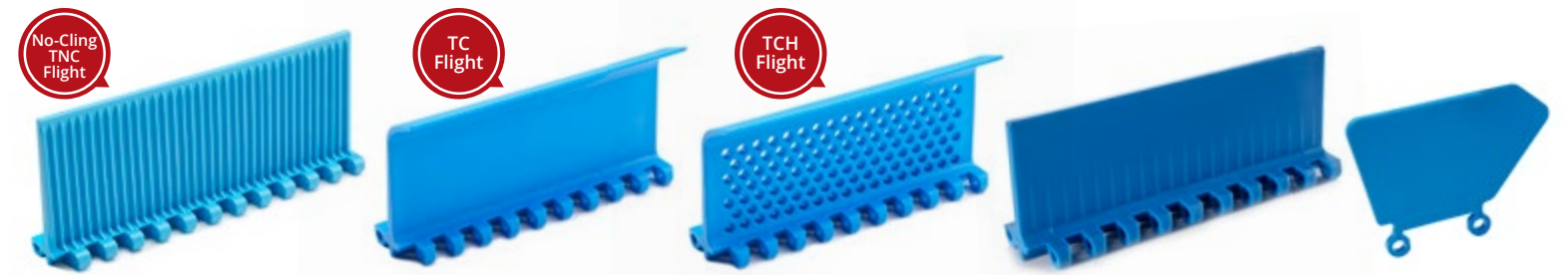
Clamp

Machined Split Sprocket

Moulded Sprocket

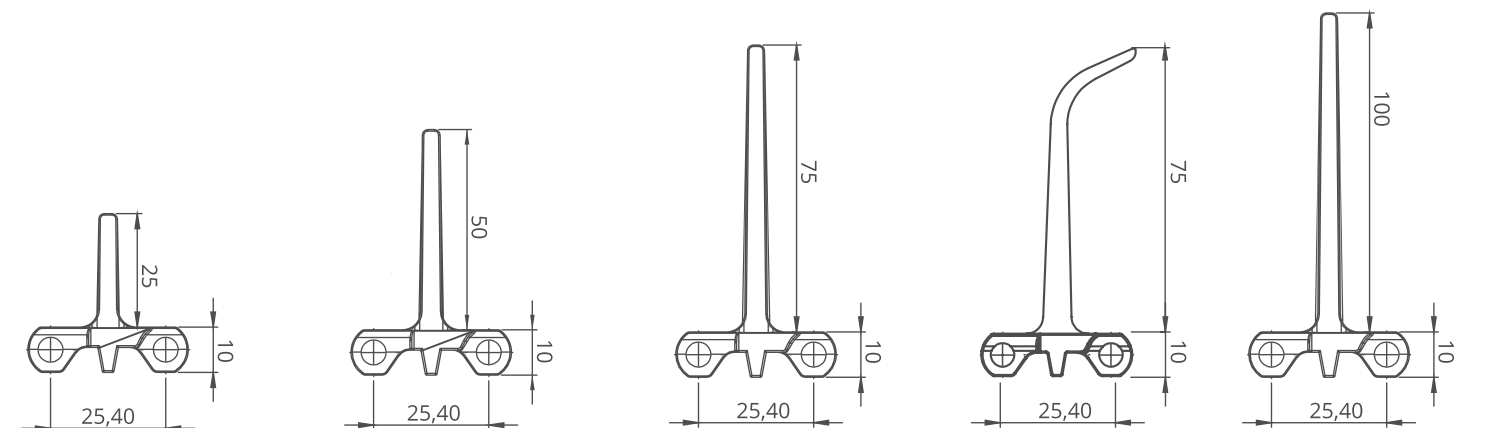
Machined Sprocket

# EC254 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	-	-



\* Additional flight dimensions are available up to 100 mm.



## EC254 Series / Sidewall Technical Specifications

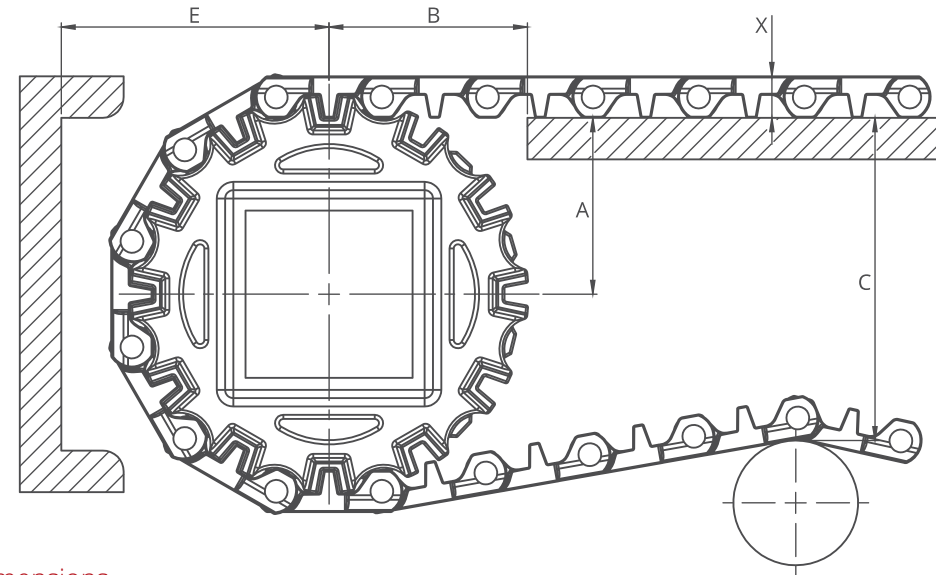
Possible Sidewall and Flight Indents	X		Y	
	mm	inch	mm	inch
Standard, module cutting necessary	26,6	1.05	13,1	0.52
Non-standard	38,1	1.50	20,7	0.82
Standard, no module cutting	45,7	1.80	28,4	1.12
Non-standard	53,3	2.10	36,0	1.42
Standard, module cutting necessary	61,0	2.40	43,6	1.72

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

## EC254 Series / Flight Technical Specifications

Possible Flight Indents for EC254 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

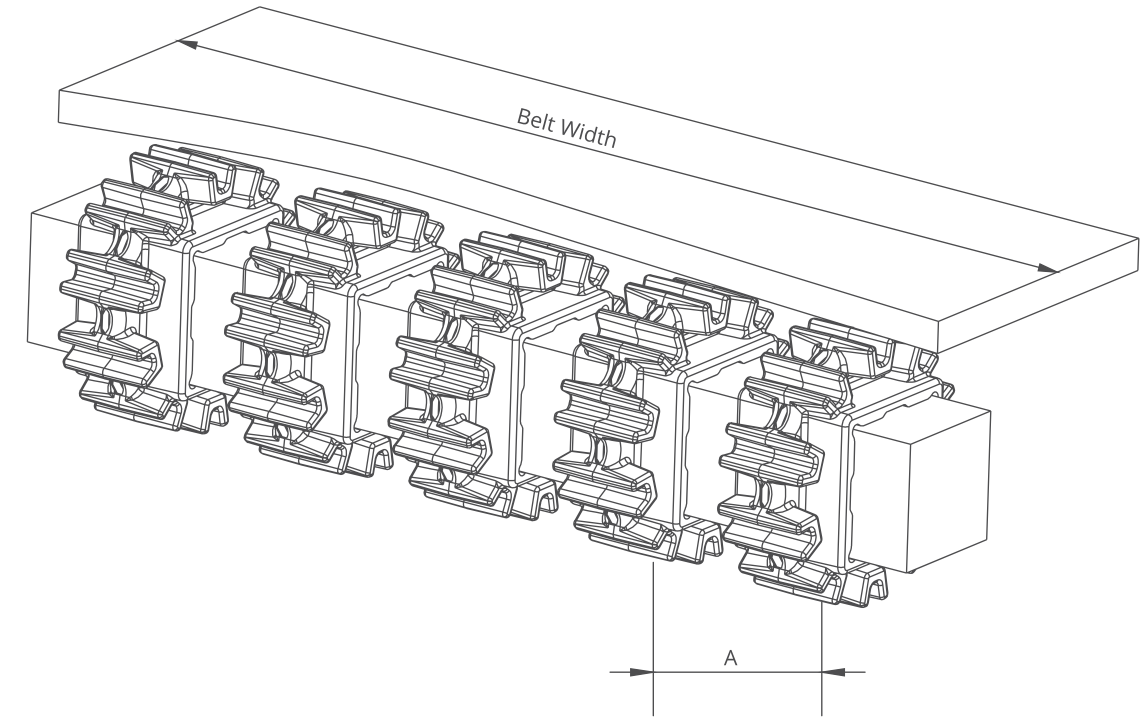
\*Non-standard flight indent is on request.



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

## EC254 Series / Conveyor Frame Dimensions

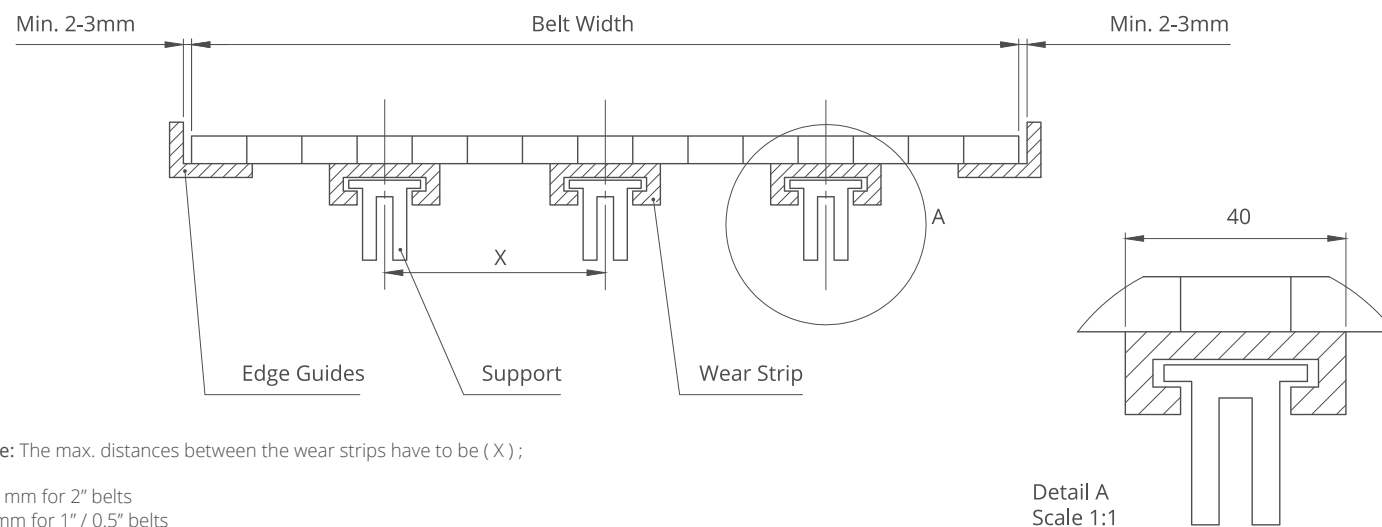
Sprockets Description			A		B		C		E		X	
Pitch Diameter		No.Teeth	Range (Bottom to Top)		inch	mm	inch	mm	inch	mm	inch	mm
inch	mm		inch	mm								
<b>EC254 C, EC254 PR%16</b>												
<b>2.30</b>	58,5	8	<b>1.16</b>	29,4	<b>1.48</b>	37,6	<b>1.92</b>	48,7	<b>1.94</b>	49,4	<b>0.39</b>	10,0
<b>2.97</b>	75,5	10	<b>1.48</b>	37,5	<b>1.69</b>	42,9	<b>2.57</b>	65,3	<b>2.26</b>	57,5	<b>0.39</b>	10,0
<b>3.63</b>	92,3	12	<b>1.80</b>	45,8	<b>1.87</b>	47,4	<b>3.23</b>	82,0	<b>2.59</b>	65,8	<b>0.39</b>	10,0
<b>4.65</b>	118,0	15	<b>2.23</b>	56,7	<b>2.16</b>	54,9	<b>4.16</b>	105,7	<b>3.02</b>	76,7	<b>0.39</b>	10,0
<b>5.63</b>	143,0	18	<b>2.75</b>	70,0	<b>2.35</b>	59,7	<b>5.18</b>	131,5	<b>3.54</b>	90,0	<b>0.39</b>	10,0
<b>EC254 NT</b>												
<b>2.30</b>	58,5	8	<b>1.08</b>	27,4	<b>1.52</b>	38,6	<b>1.84</b>	46,7	<b>1.94</b>	49,4	<b>0.47</b>	12,0
<b>2.97</b>	75,5	10	<b>1.40</b>	35,5	<b>1.74</b>	44,1	<b>2.49</b>	63,3	<b>2.26</b>	57,5	<b>0.47</b>	12,0
<b>3.63</b>	92,3	12	<b>1.74</b>	44,1	<b>1.92</b>	48,7	<b>3.16</b>	80,3	<b>2.60</b>	66,1	<b>0.47</b>	12,0
<b>4.65</b>	118,0	15	<b>2.20</b>	55,9	<b>2.19</b>	55,5	<b>4.13</b>	109,0	<b>3.07</b>	77,9	<b>0.47</b>	12,0
<b>5.63</b>	143,0	18	<b>2.70</b>	68,6	<b>2.40</b>	61,0	<b>4.20</b>	120,0	<b>2.95</b>	91,0	<b>0.47</b>	12,0



## EC254 Series / Sprockets Arrangement

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

## EC254 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

Detail A  
 Scale 1:1

Note: Number of sprockets depends on the belt load.