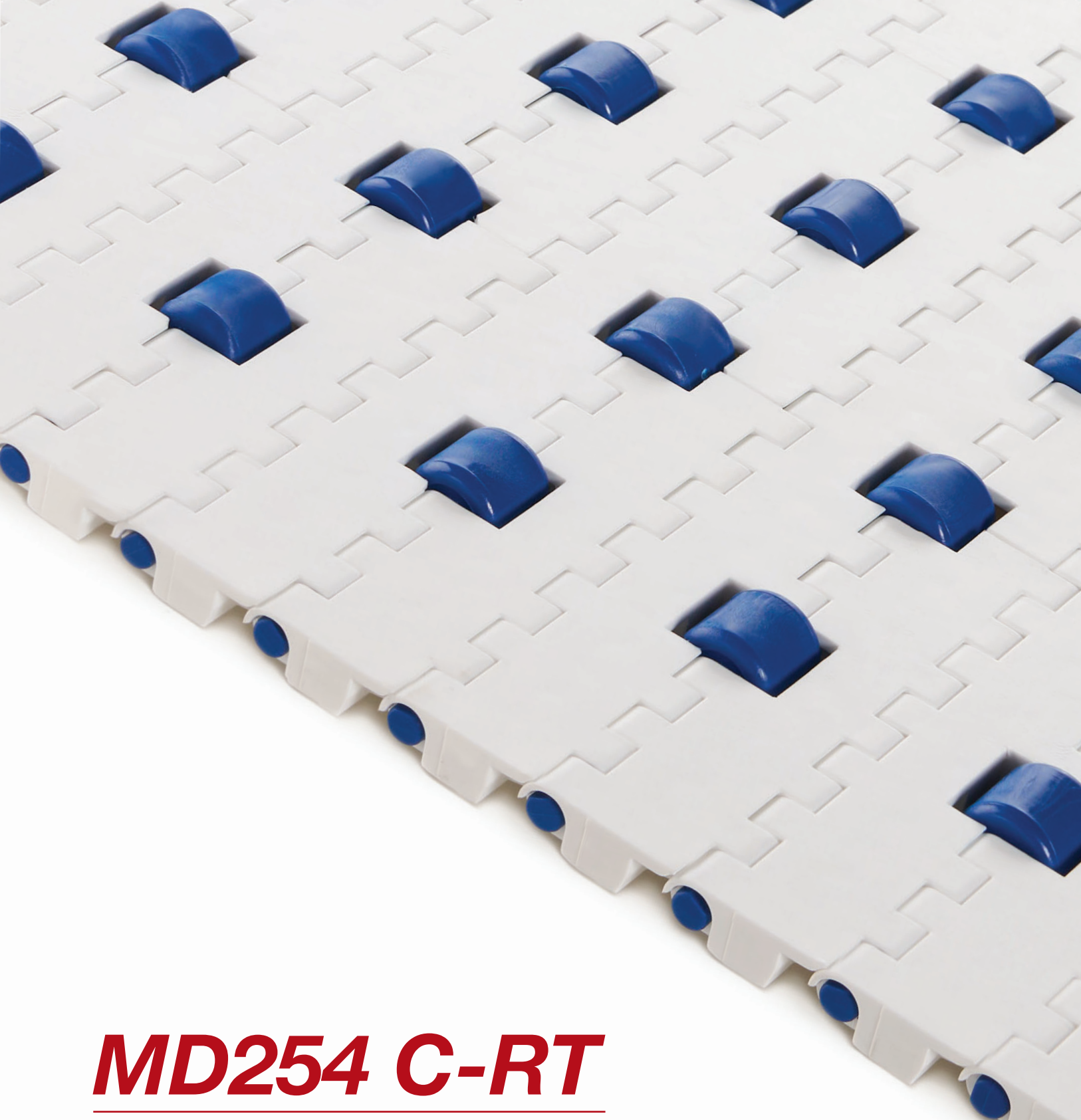




# ***MD254 C-RT***

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## **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**<sup>®</sup>  
Movement Technologies

# MD254 C-RT

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

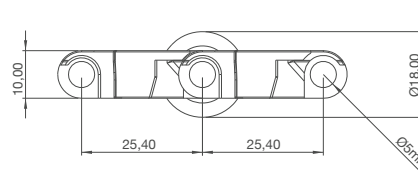
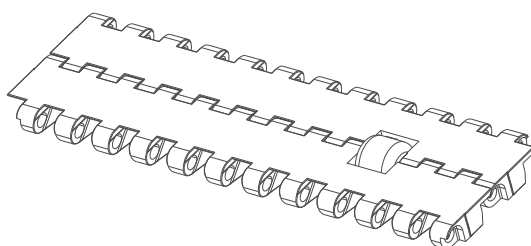


## MD254 C-RT Technical Information

| Belt Material   |                                          | POM                     | POM                     |
|-----------------|------------------------------------------|-------------------------|-------------------------|
| Roller Material |                                          | POM                     |                         |
| Pin Material    |                                          | PA                      | POM                     |
| Belt Strength   | N/m   lb/ft                              | 21500 - 1473            | 21500 - 1473            |
| Temperature     | °C<br>°F                                 | -40 / +93<br>-40 / +200 | -40 / +93<br>-40 / +200 |
| Belt Weight     | kg/m <sup>2</sup>   lb/sqft <sup>2</sup> | 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 Series

## Sprockets and Technical Specifications



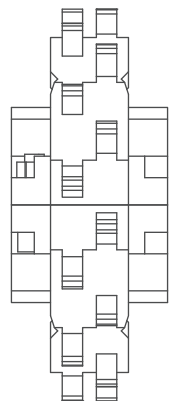
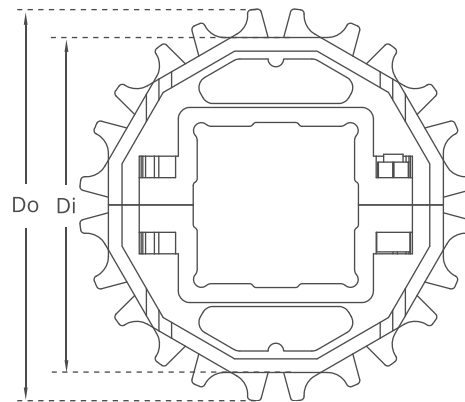
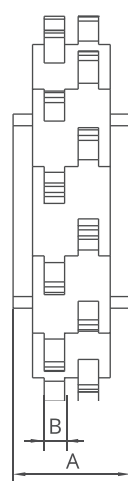
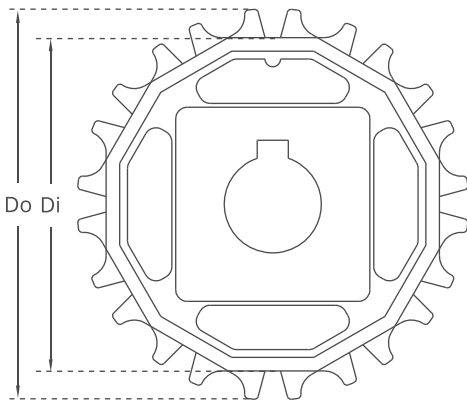
Z15



Z8



Z12-EHT



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

### MD254 C Series / Moulded Sprockets Dimensions

| NO. TEETH   | Di<br>mm/inch | Do<br>mm/inch | B<br>mm/inch | A<br>mm/inch | Square Bore (Q)<br>mm/inch |            |                 |               | PRODUCT CODE      |                   |
|-------------|---------------|---------------|--------------|--------------|----------------------------|------------|-----------------|---------------|-------------------|-------------------|
|             |               |               |              |              |                            |            |                 |               | Square Type (Q)   | Round Type (R)    |
| <b>Z8*</b>  | 52,0 / 2.05   | 67,0 / 2.64   | 5,3 / 0.21   | 30,0 / 1.18  | <b>25</b>                  | <b>1</b>   | <b>25</b>       | <b>1</b>      | MD-TR254SQZ8*POM  | MD-TR254SRZ8*POM  |
| <b>Z10*</b> | 69,0 / 2.72   | 84,0 / 3.31   | 5,3 / 0.21   | 30,0 / 1.18  | <b>40</b>                  | <b>1.5</b> | <b>25-30</b>    | <b>1-1.25</b> | MD-TR254SQZ10*POM | MD-TR254SRZ10*POM |
| <b>Z12*</b> | 85,8 / 3.38   | 100,8 / 3.97  | 5,3 / 0.21   | 30,0 / 1.18  | <b>40</b>                  | <b>1.5</b> | <b>25-30-35</b> | <b>1-1.25</b> | MD-TR254SQZ12*POM | MD-TR254SRZ12*POM |
| <b>Z15*</b> | 110,8 / 4.36  | 125,8 / 4.95  | 5,3 / 0.21   | 30,0 / 1.18  | <b>40</b>                  | <b>1.5</b> | <b>25-30</b>    | <b>1-1.25</b> | 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 |
| <b>Z18*</b> | 135,6 / 5.34  | 150,6 / 5.93  | 5,3 / 0.21   | 30,0 / 1.18  | <b>40</b>                  | <b>1.5</b> | <b>25-30-35</b> | <b>1-1.25</b> | 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.

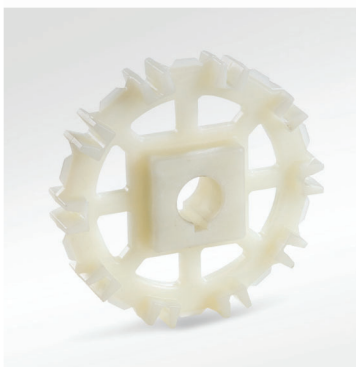
\*Machined Split Sprockets are available for each size.



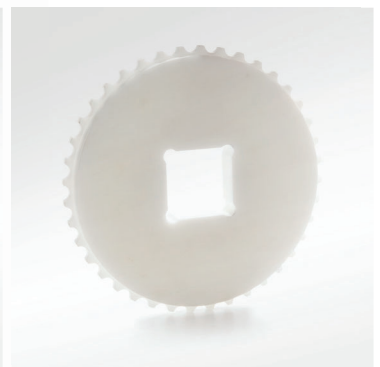
Clamp



Machined Split Sprocket



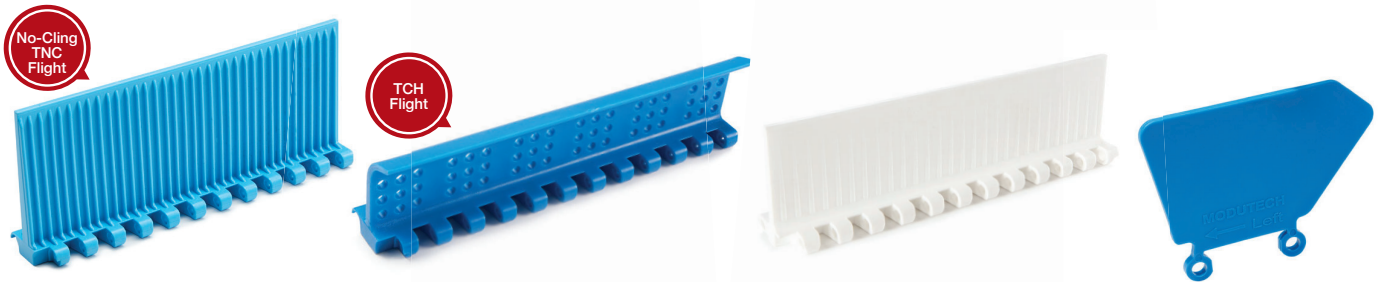
Moulded Sprocket



Machined Sprocket

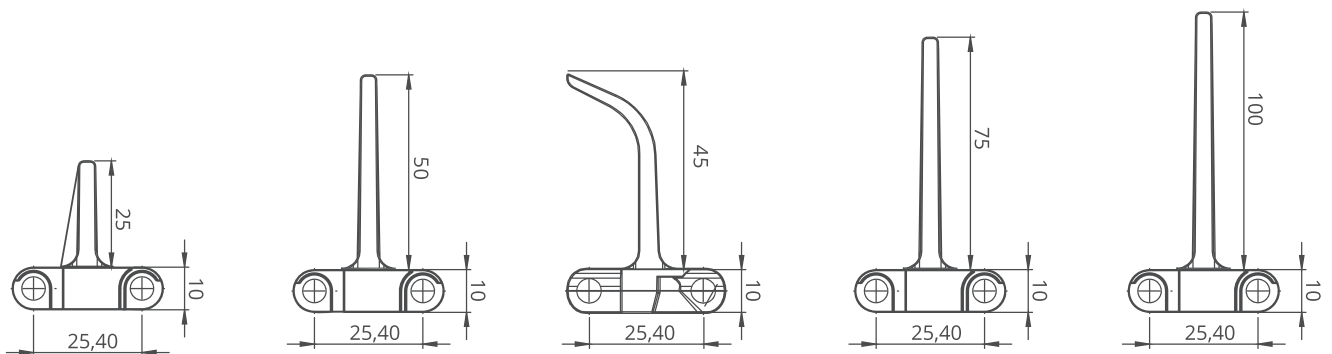
# MD254 Series

## Accessories and Technical Specifications

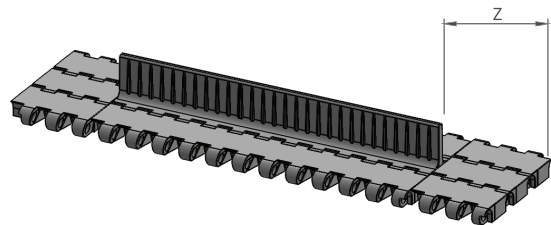
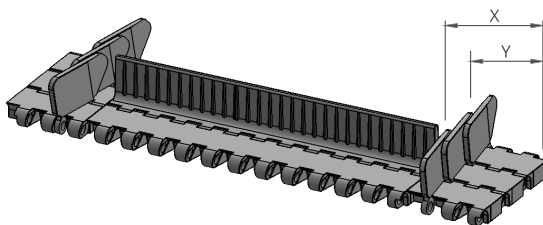


### MD254 Series / Flight & Sidewall Dimensions

| MD254 Series / Flights & Sidewalls |                                  |                                 |              |                                    |
|------------------------------------|----------------------------------|---------------------------------|--------------|------------------------------------|
| PRODUCT CODE                       | Flight Height (mm/ <i>inch</i> ) | Flight Width (mm/ <i>inch</i> ) | PRODUCT CODE | Sidewall Height (mm/ <i>inch</i> ) |
| 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.



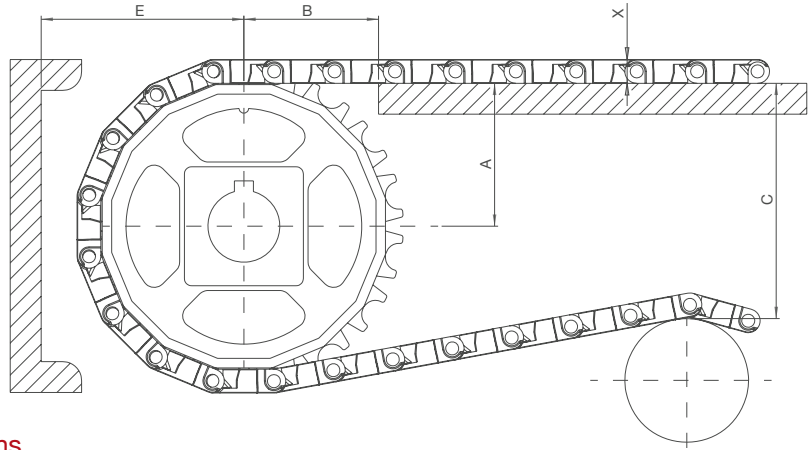
### MD254 Series / Flight & Sidewall Technical Specifications

| Possible Sidewall and Flights Indents | X    |             | Y    |             | Z    |             |
|---------------------------------------|------|-------------|------|-------------|------|-------------|
|                                       | mm   | <i>inch</i> | mm   | <i>inch</i> | mm   | <i>inch</i> |
| 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 Series

## Engineering Information

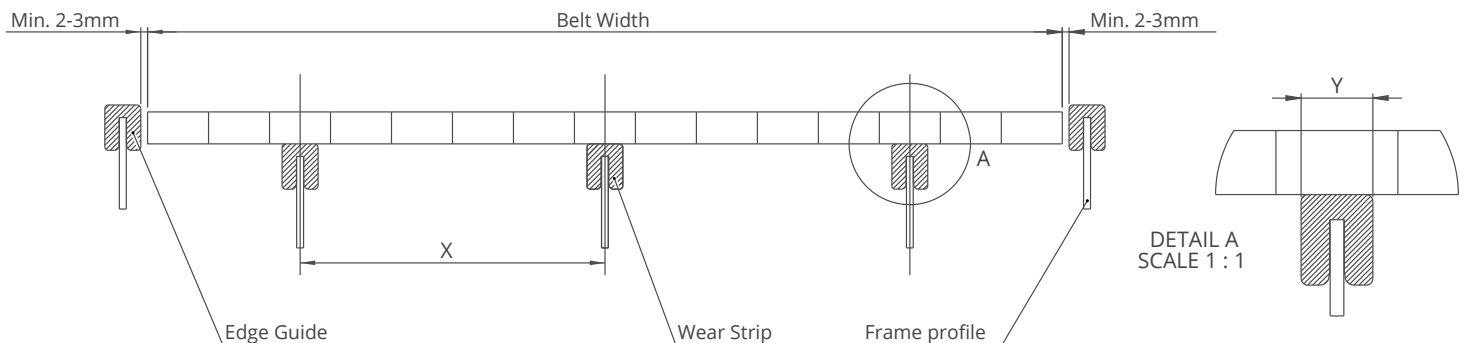
A -  $\pm 0,031"$  ( 1mm )      C -  $\pm$  ( Max. )  
 B -  $\pm 0,125"$  ( 3mm )      E -  $\pm$  ( Min. )



### 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



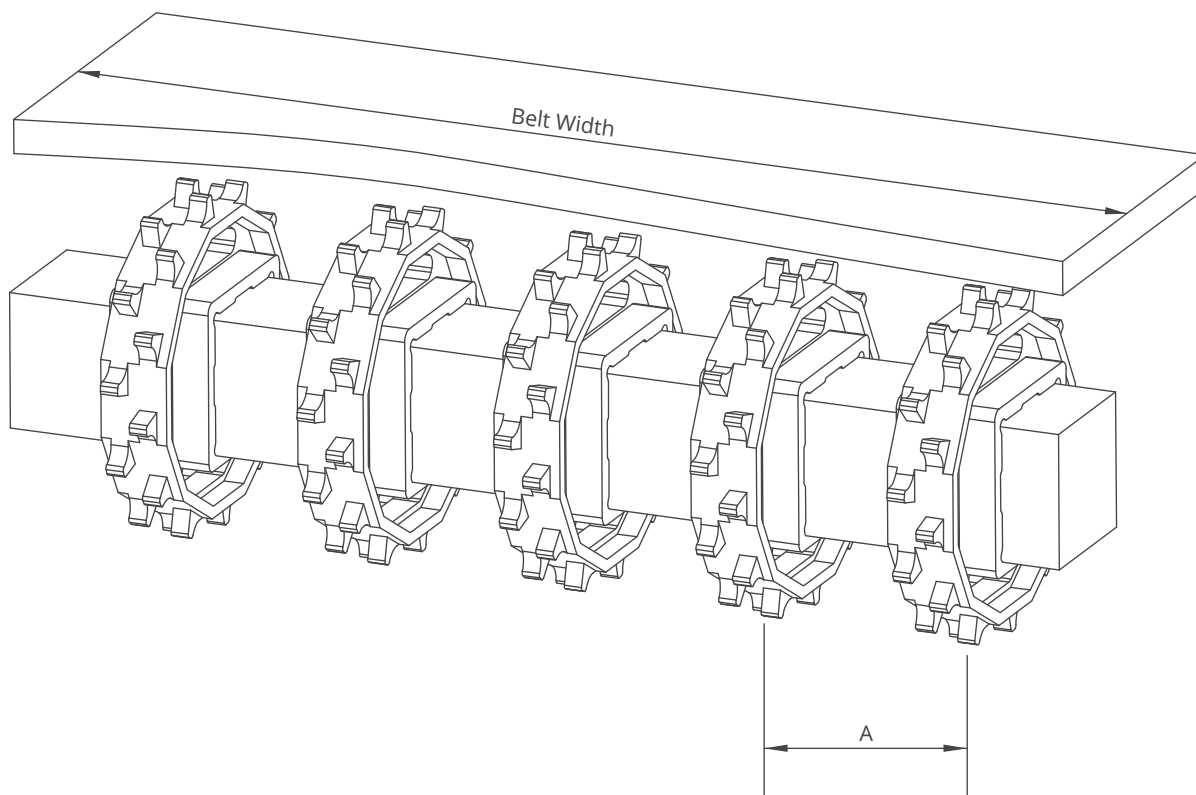
**Note:** The distances between the carryway wear strips ( X ) may be changed to due to operation conditions and transported load. In general, we recommend;

**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 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.