



# ***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



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

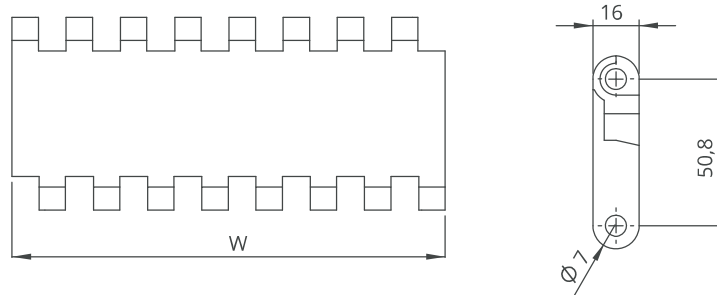


## MD508 C Technical Information

| 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<br>°F         | -40 / +93<br>-40 / +200 | -40 / +93<br>-40 / +200 | +5 / +93<br>+40 / +200 | +5 / +105<br>+40 / +220 | +5 / +93<br>+40 / +200 | -40 / +65<br>-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 Series

## Sprockets and Technical Specifications



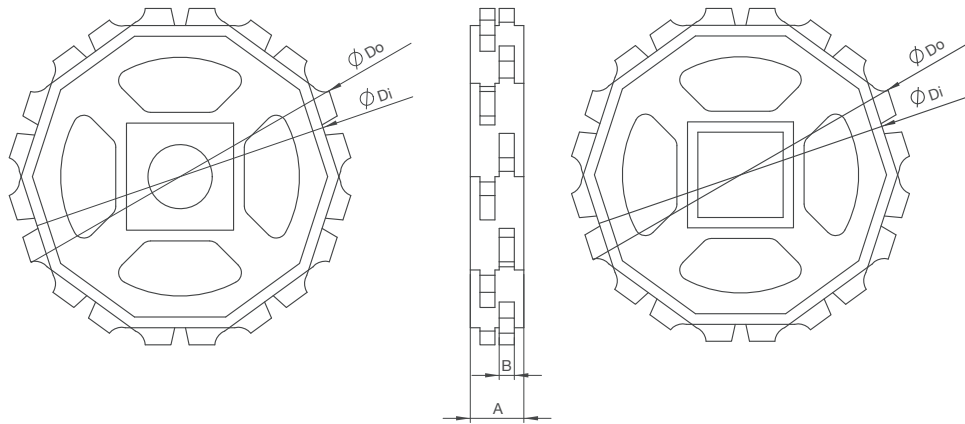
Z8



Z10



Z12



### MD508 Series / Molded Sprocket Dimensions

| NO. TEETH | Di<br>mm/inch | Do<br>mm/inch | A<br>mm/inch | B<br>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.

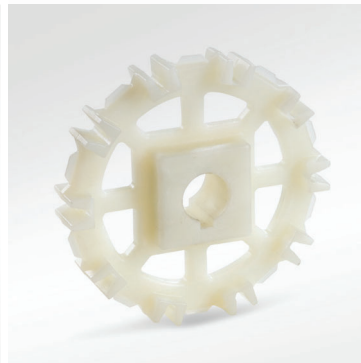
\*Machined Split Sprockets are available on request.



Clamp



Machined Split Sprocket



Moulded Sprocket



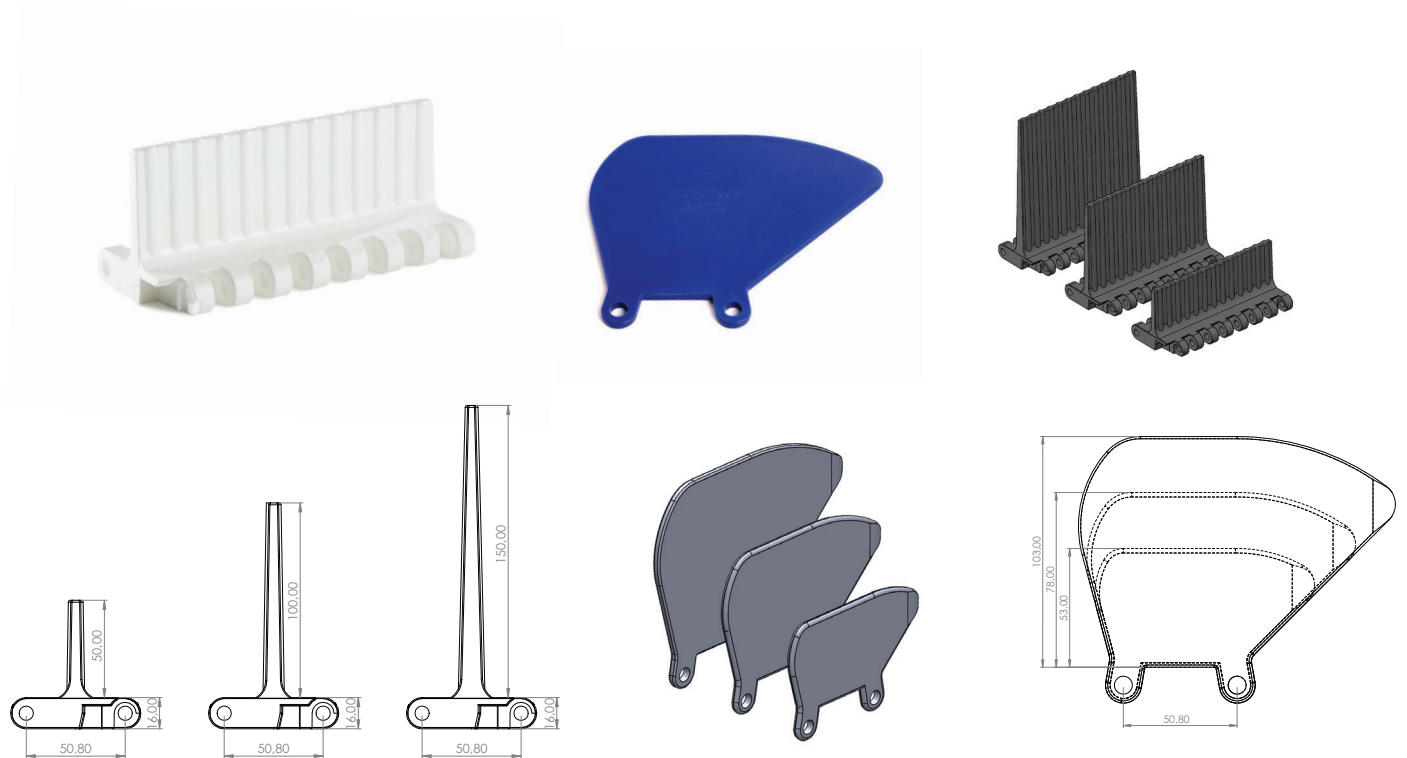
Machined Sprocket

# 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                         |



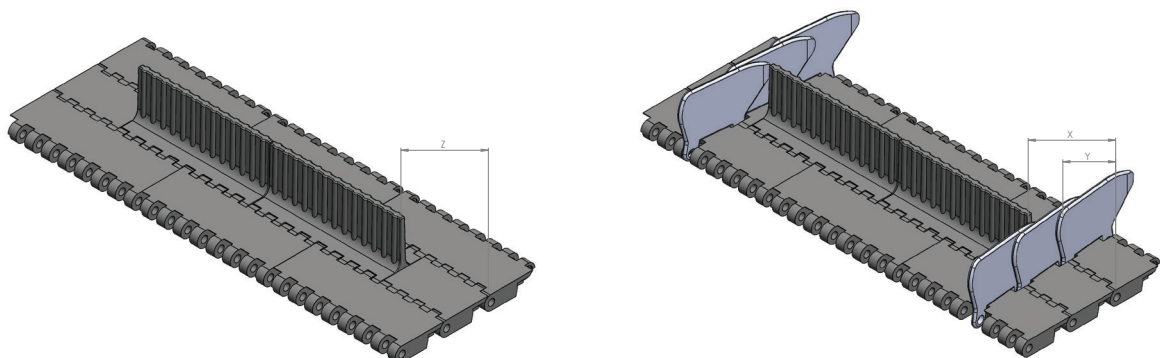
### MD508 Series / Standard Installation of Flights and Sidewalls

| 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:

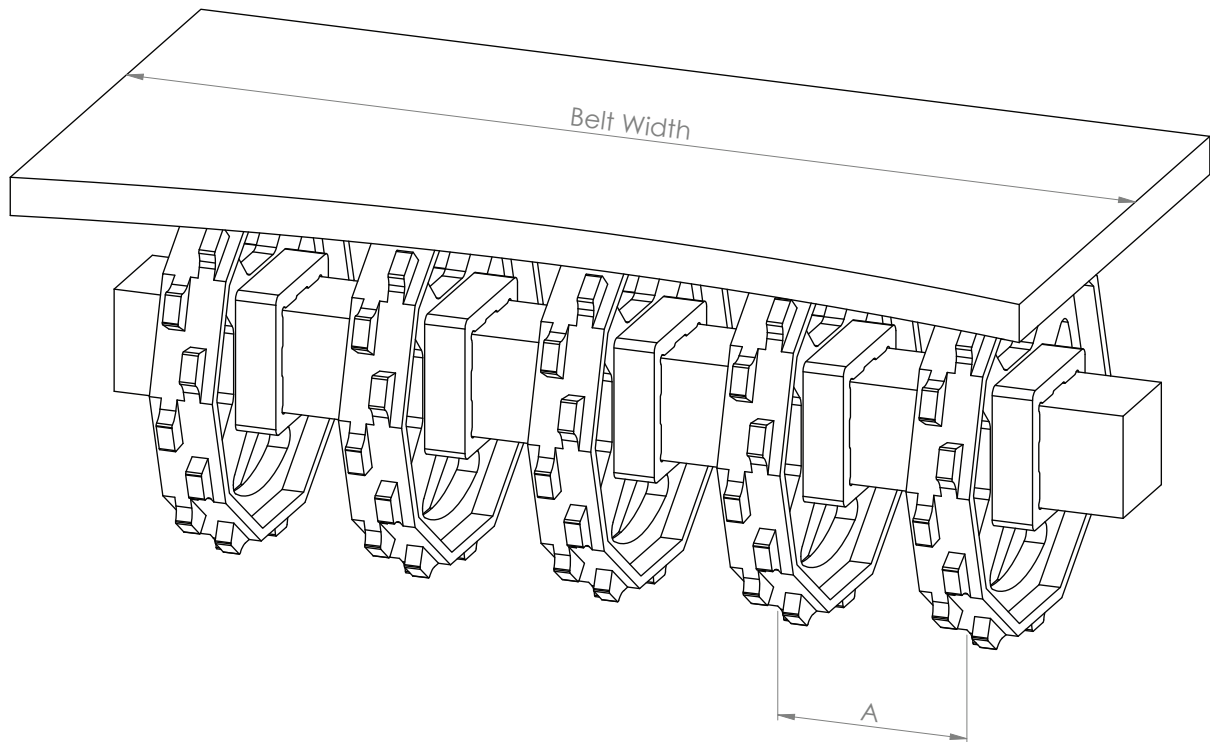
X (Max.) tolerance is -2 mm

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").