



# ***EC508 NT***

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## **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**

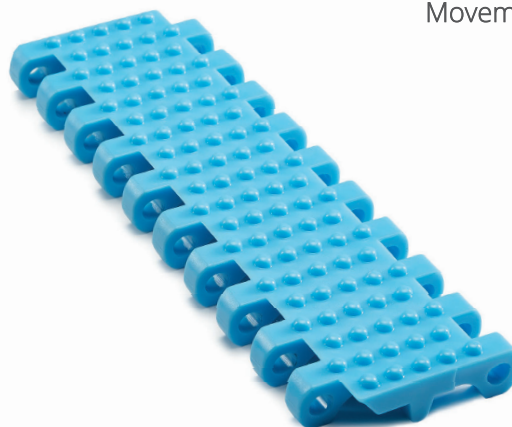
Bulk Feeding, Elevators, Control Sorting Table, Filling



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

# EC508 NT

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

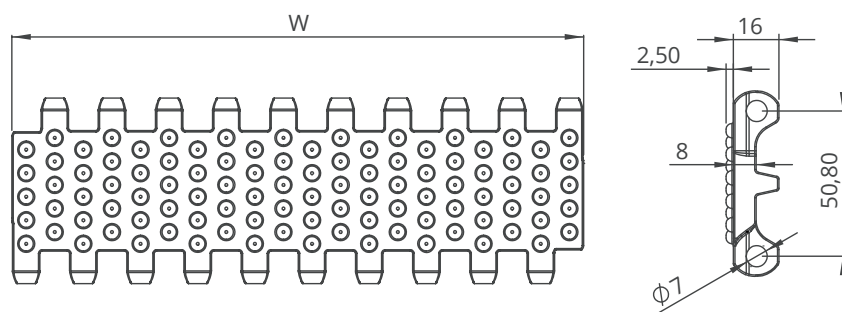


## EC508 NT Technical Information

| 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<br>°F                                 | -40 / +93<br>-40 / +200 | -40 / +93<br>-40 / +200 | -40 / +65<br>-40 / +150 | +5 / +105<br>+40 / +220 | +5 / +93<br>+40 / +200 | -40 / +65<br>+40 / +150 | -70 / +65<br>-50 / +150 |
| Belt Weight   | kg/m <sup>2</sup>   lb/sqft <sup>2</sup> | 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

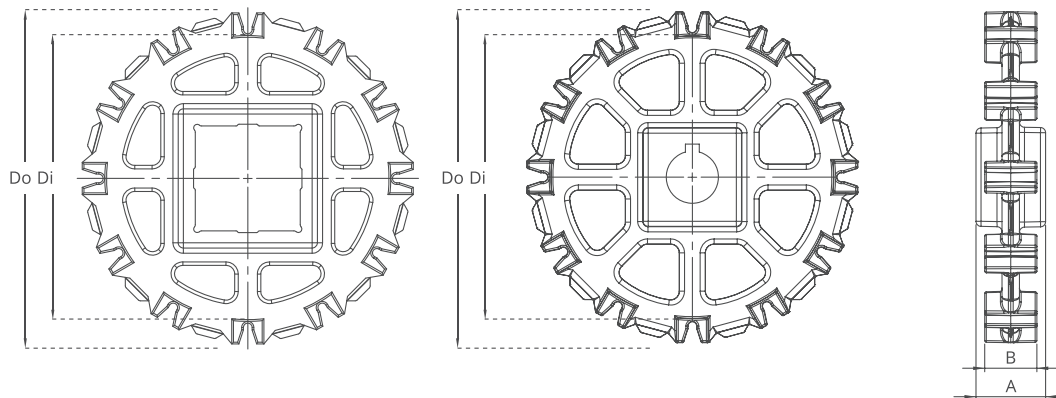
- Easy to clean reduces downtime for cleaning time 70%.
- Close, sticky transfer applications. Non-adhesive due to reduced contact surface.
- Reduces bacteria growth.
- Unique sprocket engagement - higher product load and longer conveyors.
- Strong and thick product supports allow more load without breaking.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

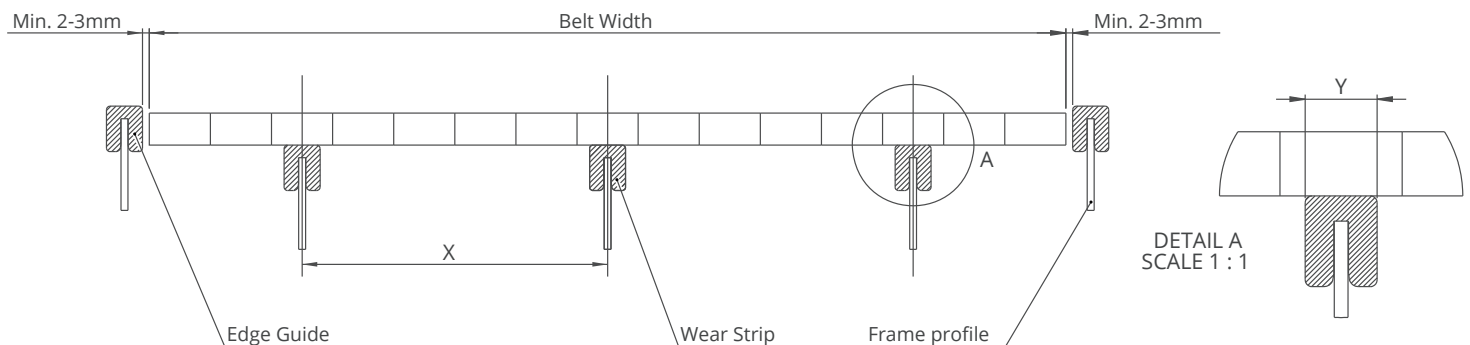
| NO. TEETH | Di<br>mm/inch | Do<br>mm/inch | A<br>mm/inch | B<br>mm/inch | Square Bore (Q) |           | Round Bore (R) |           | PRODUCT CODE     |                  |
|-----------|---------------|---------------|--------------|--------------|-----------------|-----------|----------------|-----------|------------------|------------------|
|           |               |               |              |              | mm              | inch      | mm             | inch      | Square Type (Q)  | Round Type (R)   |
| 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.

### 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.

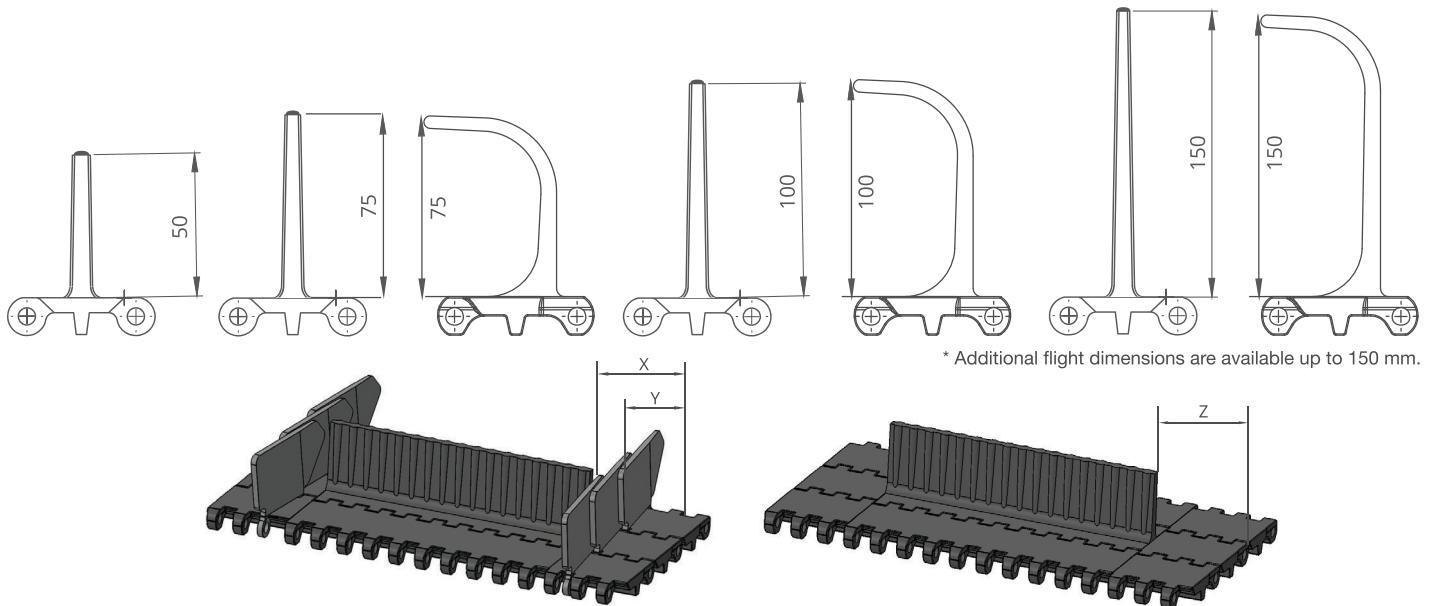
# EC508 Series

## 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             | -            | -                         |



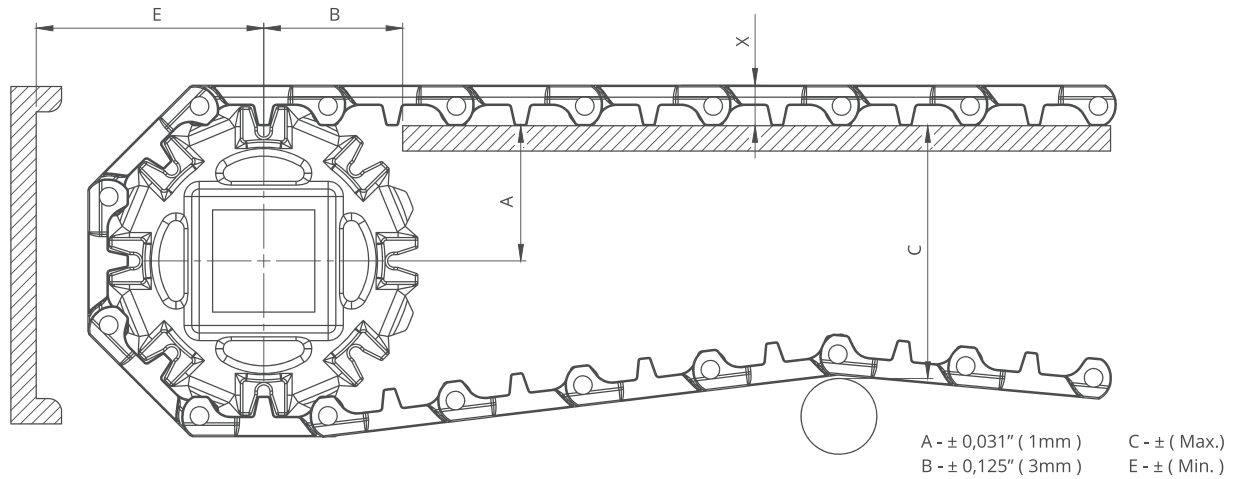
### EC508 Series / Sidewall Technical Specifications

| 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

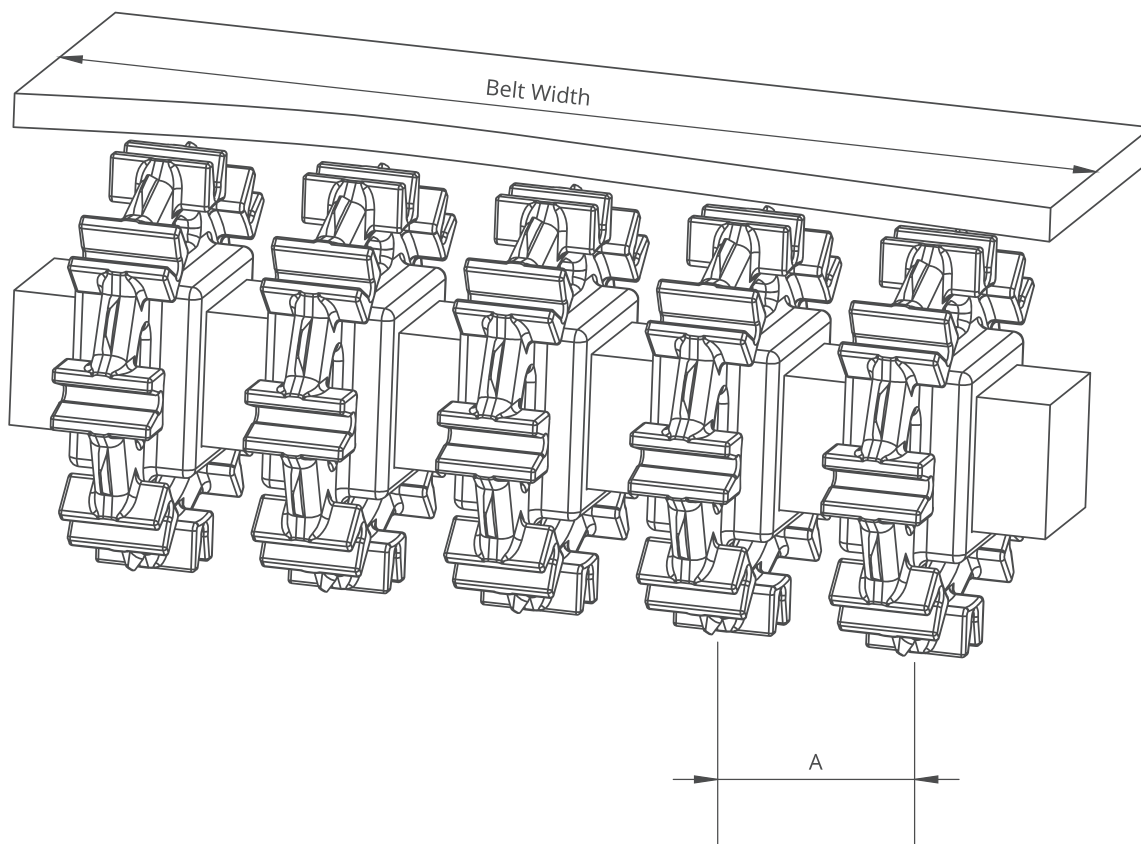


### EC508 Series / Conveyor Frame Dimensions

| 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").