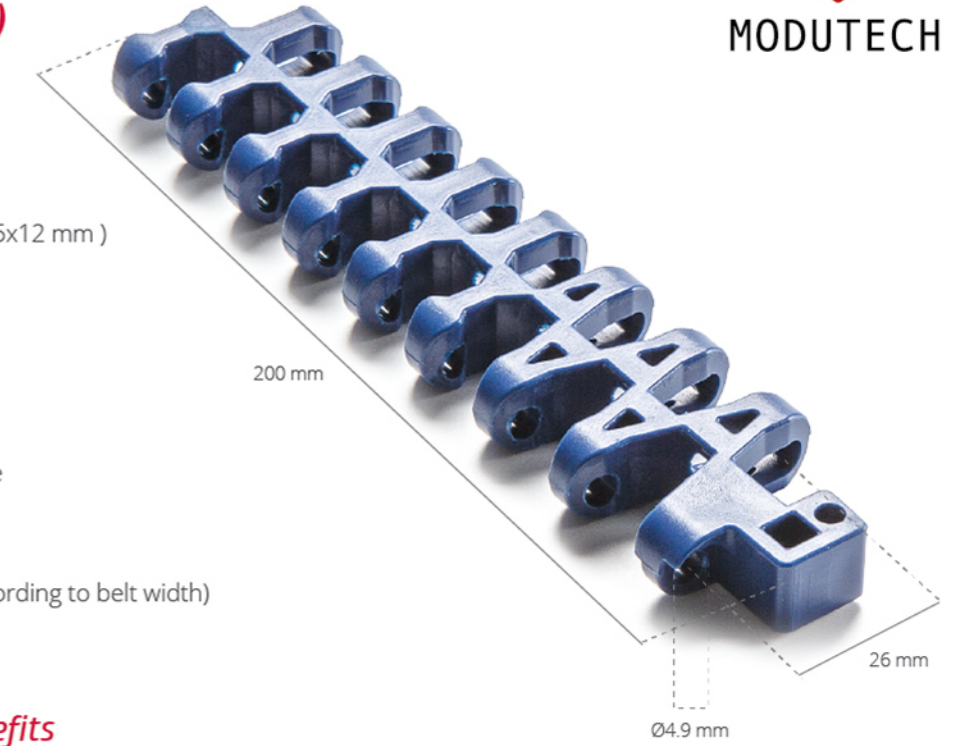


EC254T R (Tight Radius)

| | |
|-------------------|--|
| Pitch : | 26 mm |
| Belt Surface : | Smooth Surface |
| Minimum Width : | 200 mm |
| Open Area (%) : | %38. (Biggest opening 6,5x12 mm) |
| Flight : | No |
| Side Wall : | No |
| Rod : | Ø4.9 mm |
| Approved : | FDA and EU |
| Curve : | Yes |
| Color : | Additional colors available |
| Cleanability : | Excellent |
| Application : | Straight and side flexing |
| Collapse Factor : | 1.4 - 1.6 (Changeable according to belt width) |
| Belt Width: | 13 mm |



Product Features and Functional Benefits

- Belt designed for tight radius applications.
- Available for light and medium load capacity.
- 180 degree high speed side flexing applications.
- High temperature and wear resistance.
- Unique locking system.
- Belt provides optimal open area for drainage and airflow.

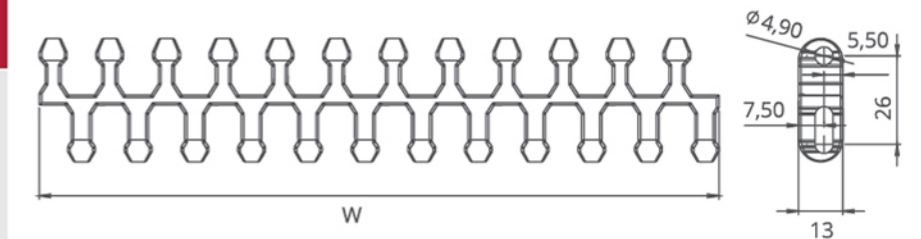
EC254T R / Technical Information

| BELT MATERIAL | BELT STRENGTH | | | | TEMPERATURE | | BELT WEIGHT Kg/m ² |
|---------------|---------------|-------|-------|------|-------------|---------|----------------------------------|
| | Straight | | Curve | | C(min.) | C(max.) | |
| | Kg/m | N/m | Kg/m | N/m | | | |
| Polypropylene | 900 | 9000 | 120 | 1200 | +5 | +90 | 5.6 |
| Polyethylene | - | - | - | - | - | - | - |
| Acetal | 1625 | 16250 | 160 | 1600 | -43 | +110 | 7.4 |

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

EC254T R / Standard Belt Widths

| BELT SERIES | WIDTH (W) | | | | Belt Width Tolerance (max.) |
|-------------|-----------|--------|------|--------|-----------------------------|
| | PP | | POM | | |
| | (mm) | (inch) | (mm) | (inch) | |
| EC254T R | 150 | 6" | 150 | 6" | ± 0,5 mm |
| EC254T R | 200 | 8" | 200 | 8" | ± 2 mm |
| EC254T R | 250 | 10" | 250 | 10" | ± 2 mm |
| EC254T R | 300 | 12" | 300 | 12" | ± 3 mm |
| EC254T R | 350 | 14" | 350 | 14" | ± 3 mm |
| EC254T R | 400 | 16" | 400 | 16" | ± 3 mm |
| EC254T R | 450 | 18" | 450 | 18" | ± 3 mm |
| EC254T R | 500 | 20" | 500 | 20" | ± 4 mm |
| EC254T R | 550 | 22" | 550 | 22" | ± 4 mm |
| EC254T R | 600 | 24" | 600 | 24" | ± 4 mm |
| EC254T R | 650 | 26" | 650 | 26" | ± 4 mm |
| EC254T R | 700 | 28" | 700 | 28" | ± 4 mm |
| EC254T R | 750 | 30" | 750 | 30" | ± 4 mm |
| EC254T R | 800 | 32" | 800 | 32" | ± 4 mm |



- Standard belt increments 16,6 mm.
- Please contact with customer service for precise belt measurements.
- For bigger sizes, please contact with customer service.

EC254T R

Modular Radius Belt Series

• Meat Applications

Spiral Freezer

• Poultry Applications

Spiral Freezer

• Seafood Applications

Freezing Lines, Spiral

• Bakery Applications

Spiral, Proofing, Cooling, Freezing Lines, Pan Handling

• Fruits and Vegetables Applications

Container Conveyence

• Automotive Applications

Car Part Manufacturing, Battery Filling

• Packaging Applications

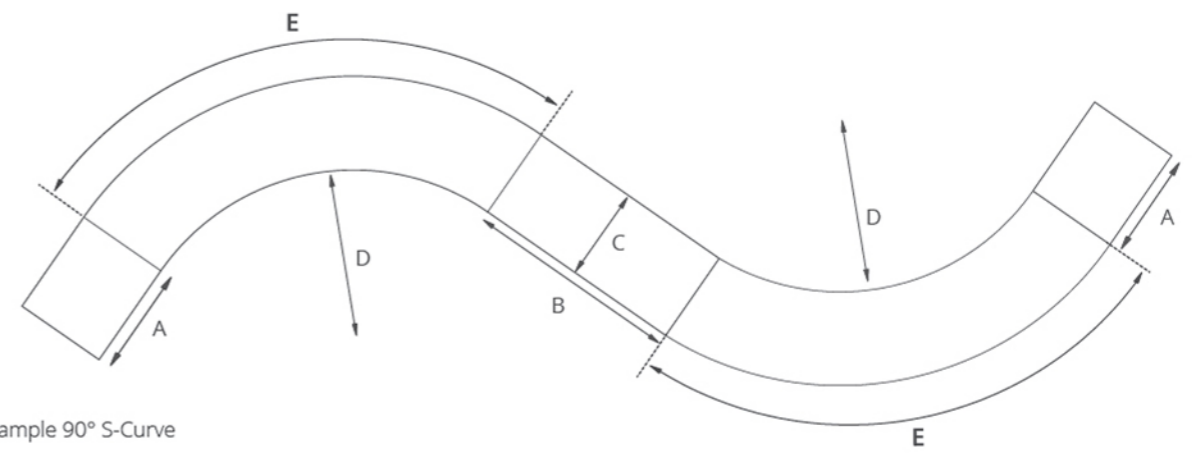
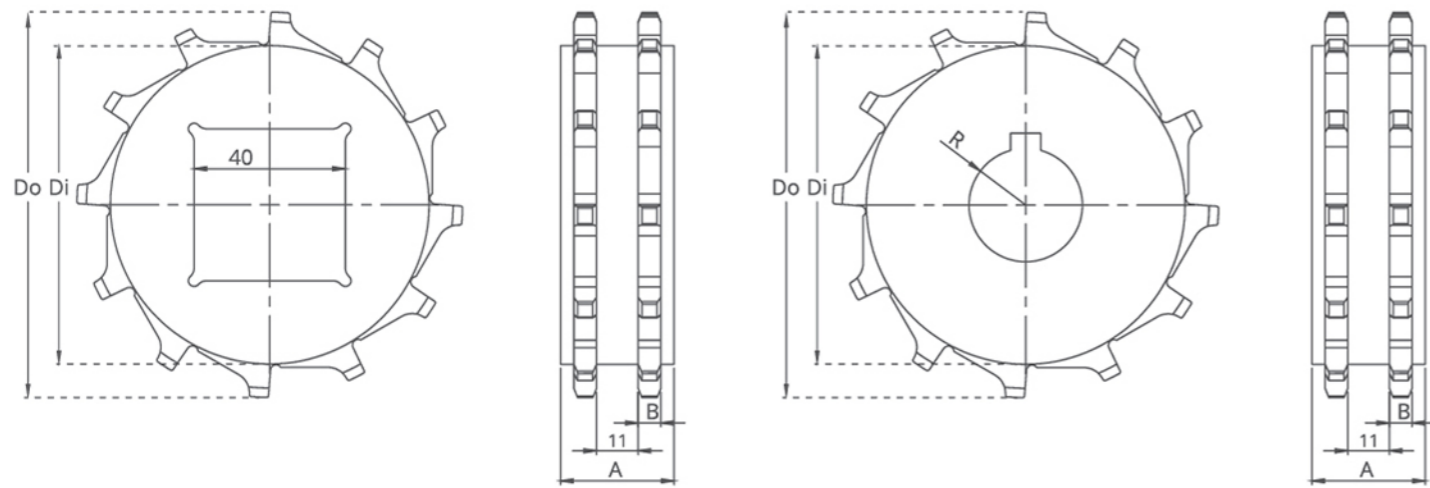
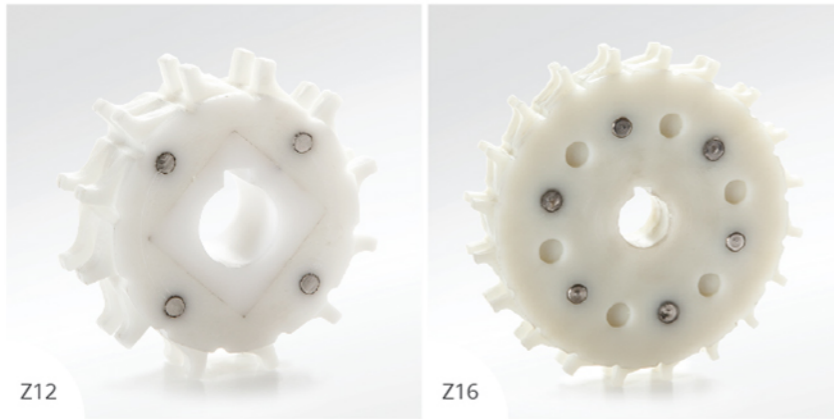
Tray Packers, Box Transport Horizontal

• Postal Applications

Parcel Handling

EC254T R Series Sprockets and Technical Specifications

EC254T R Series Radius Belt Calculation



Radius Belt Example 90° S-Curve

EC254T R Series / Standard Sprockets Dimensions

| NO. TEETH | Di | Do | B | A | Square Bore (Q) | Round Bore (R) | PRODUCT CODE | |
|-----------|-------|-------|--------|---------|-----------------|----------------|-----------------|-----------------|
| | | | | | | | Square Type (Q) | Round Type (R) |
| Z10 | 69.0 | 85.0 | 6.0 mm | 30.0 mm | 40.0 mm | 25.0 / 30.0 | EC254TRSQZ10*PA | EC254TRSRZ10*PA |
| Z12 | 86.0 | 102.0 | 6.0 mm | 30.0 mm | 40.0 mm | 25.0 / 30.0 | EC254TRSQZ12*PA | EC254TRSRZ12*PA |
| Z15 | 111.0 | 125.0 | 6.0 mm | 30.0 mm | 40.0 mm | 25.0 / 30.0 | EC254TRSQZ15*PA | EC254TRSRZ15*PA |

*Other sprockets and hub sizes are manufactured up to request.
*POM (Acetal) and PP (Polypropylene) sprockets raw material is available on request.

EC254T R Series / Radius Belt Calculation

- A: Straight run pull and n = Belt width
- B: Straight run between 2 curves = min. 2 x belt width
- C: Belt width
- D: Minimum inner radius
- E: Curve length

$$\text{Collapse Factor} = \frac{\text{Min. inner radius}}{\text{Belt width}}$$

$$\text{Minimum inner radius} = \text{Collapse Factor} \times \text{Belt width}$$

CALCULATION EXAMPLE

Belt width: 394 mm 90° Radius Belt
Collapse Factor: 2.1

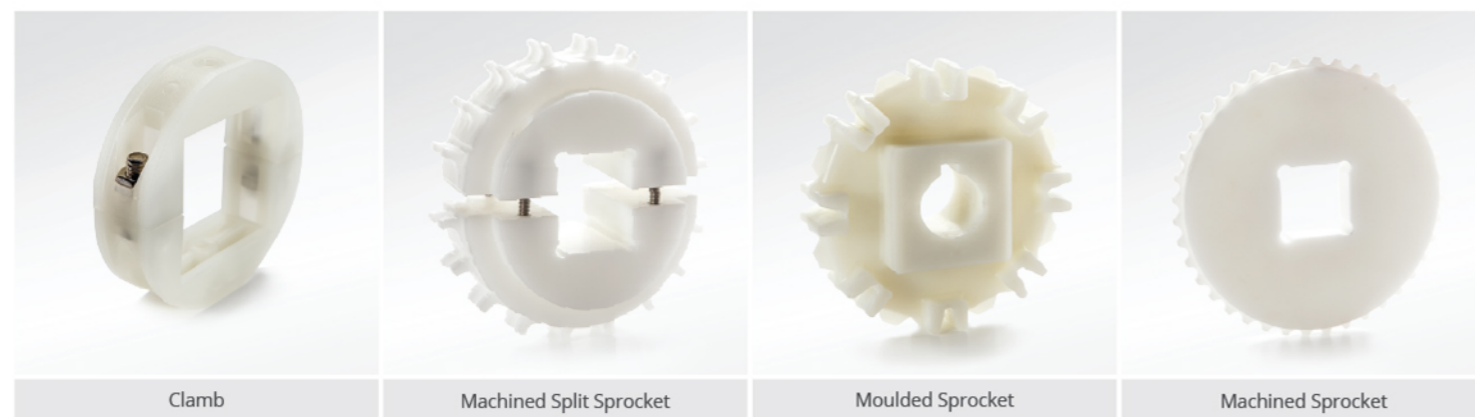
$$D: 394 \times 2.1 = 827 \text{ mm}$$

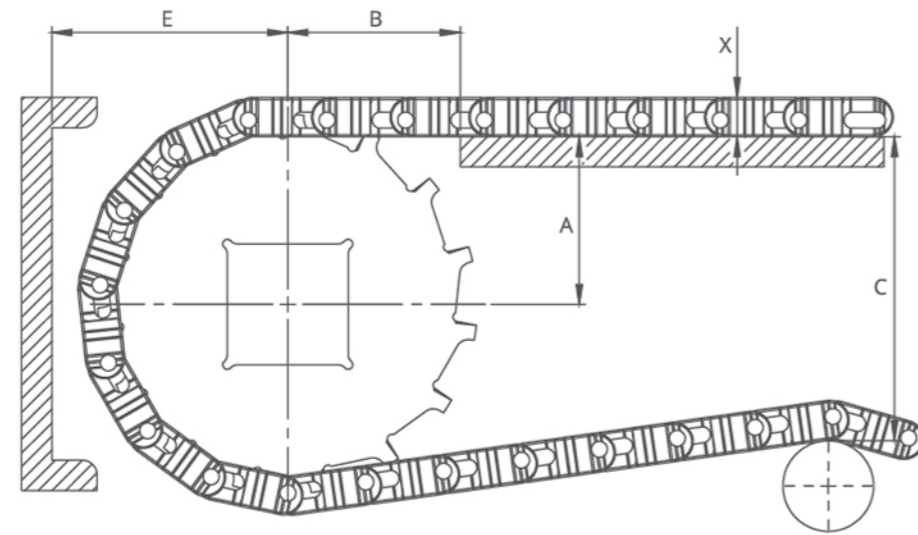
$$A: 394 \text{ (Min.)}$$

$$B: 2 \times 394 = 788 \text{ mm (Min.)}$$

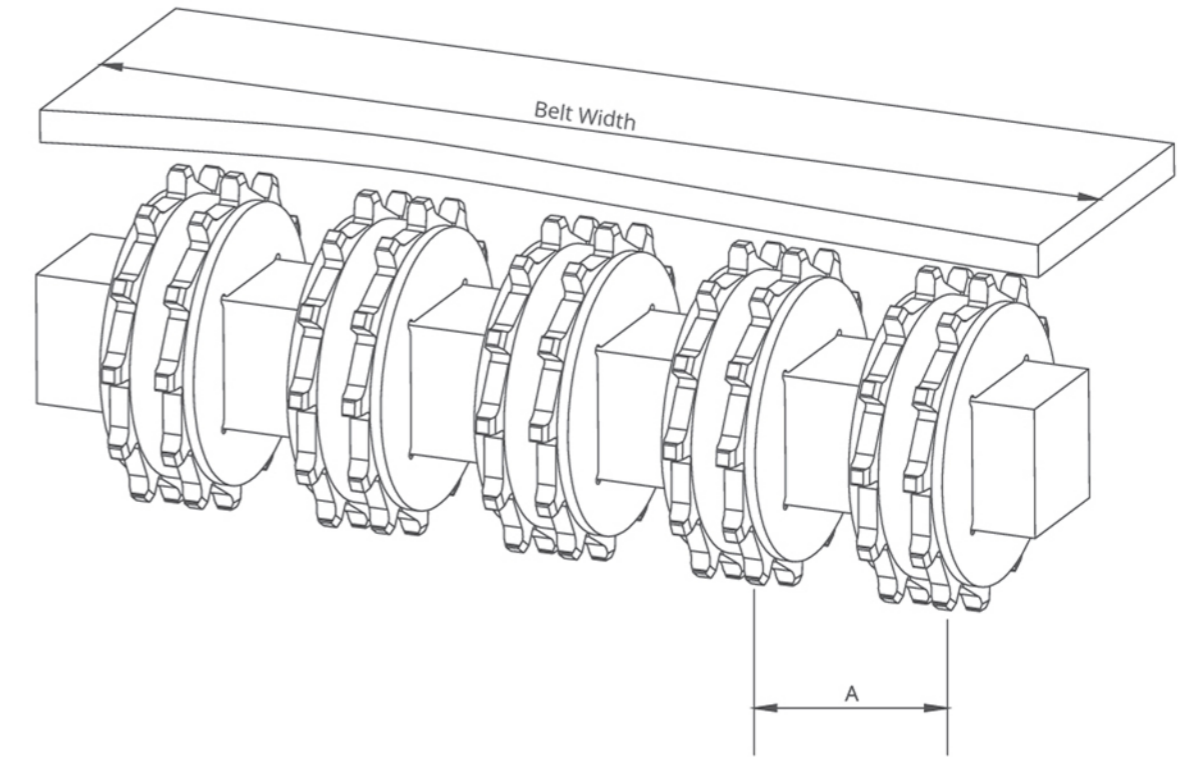
$$E: \frac{(C+D) \times 3.14}{4} = 958 \text{ mm}$$

$$\text{Total length} = (2 \times A) + B + (2 \times E)$$





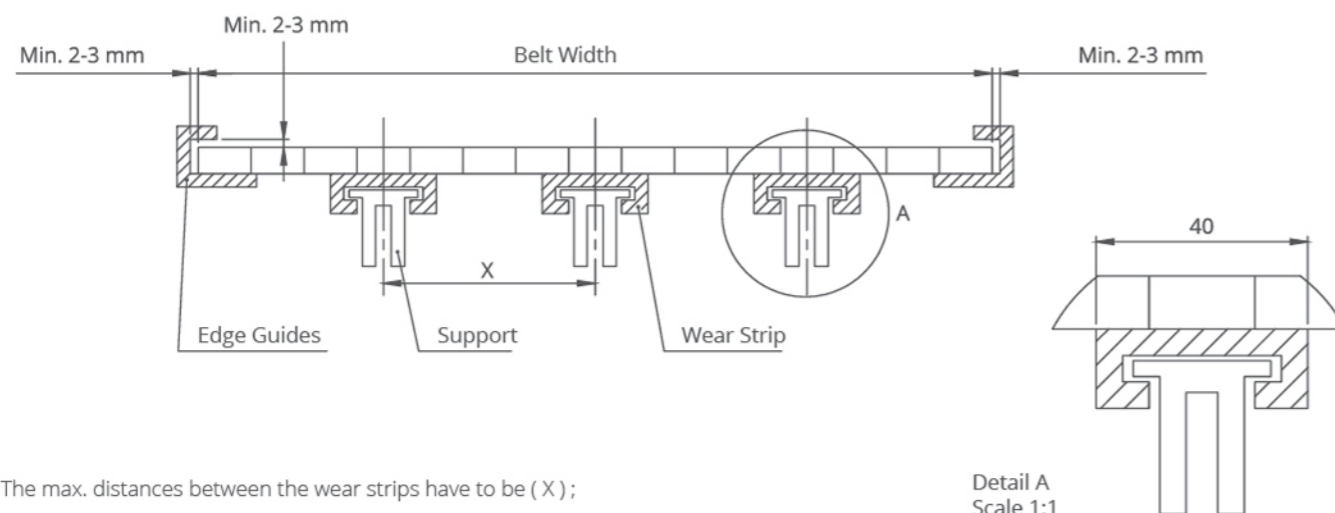
A - ± 0,031" (1mm) C - ± (Max.)
 B - ± 0,125" (3mm) E - ± (Min.)



EC254T R Series / Conveyor Frame Dimensions

| Sprockets Description | | | A | | B | | C | | E | | X | |
|-----------------------|-----|----------|-----------------------|-------|------|------|------|------|------|-------|------|----|
| Pitch Diameter | | No.Teeth | Range (Bottom to Top) | | In. | mm | In. | mm | In. | mm | In. | mm |
| In. | mm | | In. | mm | | | | | | | | |
| EC254T R | | | | | | | | | | | | |
| 2,87 | 73 | 10 | 1,43 | 36,25 | 1,85 | 47 | 2,54 | 64,5 | 2,33 | 59,25 | 0,51 | 13 |
| 3,82 | 97 | 12 | 1,77 | 45 | 2,03 | 51,5 | 3,39 | 86 | 2,68 | 68 | 0,51 | 13 |
| 4,72 | 120 | 15 | 2,22 | 56,5 | 2,24 | 57 | 3,94 | 100 | 3,13 | 79,5 | 0,51 | 13 |

EC254T R Series / Slider Support System For Straight Running Belts



Not: 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

EC254T R Series / Sprockets Arrangement

| Standard Belt Width | | Number of sprockets per shaft | | A (mm/inch) | |
|---------------------|------|-------------------------------|--------------|-------------|---------|
| mm | inch | Drive Shaft | Return Shaft | Min. | Max. |
| 150 | 6 | 2 | 2 | 50/2 | 120/4,7 |
| 200 | 8 | 2 | 2 | 50/2 | 120/4,7 |
| 250 | 10 | 3 | 2 | 50/2 | 120/4,7 |
| 300 | 12 | 3 | 2 | 50/2 | 120/4,7 |
| 350 | 14 | 3 | 3 | 50/2 | 120/4,7 |
| 400 | 16 | 4 | 3 | 50/2 | 120/4,7 |
| 450 | 18 | 4 | 3 | 50/2 | 120/4,7 |
| 500 | 20 | 5 | 4 | 50/2 | 120/4,7 |
| 550 | 22 | 5 | 4 | 50/2 | 120/4,7 |
| 600 | 24 | 6 | 5 | 50/2 | 120/4,7 |
| 700 | 26 | 7 | 5 | 50/2 | 120/4,7 |
| 800 | 28 | 8 | 6 | 50/2 | 120/4,7 |
| 900 | 30 | 9 | 7 | 50/2 | 120/4,7 |
| 1000 | 32 | 10 | 7 | 50/2 | 120/4,7 |

Note: Number of sprockets depends on the belt load.