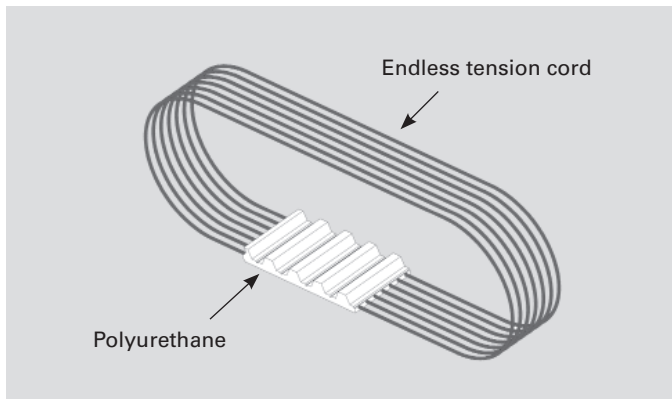


ELA-flex SD[®] timing belts

1400 Ela-flex SD 231300 Made in France

ELA-flex SD[®] Synchro Drive timing belts

ELA-flex SD[®] timing belts are manufactured with truly endless high tension strength steel tension cords and high wear, abrasion and tear resistant polyurethane.



Having no splice or welding, the belts have no weak cross sections. ELA-flex SD[®] timing belts are therefore ideal for high speed power transmission and high load conveying applications.

The unique high tech manufacturing process designed by our research and development allows the production of every belt length, tooth by tooth from a **minimum 800 mm** to a maximum of 24.000 mm to permit the best flexibility in application.

Length tolerances

| Belt length [mm] | Length tolerance (+/-) [mm] | Belt length [mm] | Length tolerance (+/-) [mm] |
|------------------|-----------------------------|------------------|-----------------------------|
| 900 | 0,75 | 4000 | 2,11 |
| 1100 | 0,85 | 4250 | 2,24 |
| 1300 | 0,95 | 4500 | 2,32 |
| 1500 | 1,04 | 4750 | 2,40 |
| 1700 | 1,13 | 5000 | 2,52 |
| 1900 | 1,22 | 5300 | 2,64 |
| 2120 | 1,30 | 5600 | 2,72 |
| 2240 | 1,35 | 6000 | 2,92 |
| 2360 | 1,44 | 6300 | 3,04 |
| 2500 | 1,49 | 6700 | 3,19 |
| 2650 | 1,57 | 7100 | 3,35 |
| 2800 | 1,61 | 7500 | 3,51 |
| 3000 | 1,70 | 8000 | 3,70 |
| 3550 | 1,91 | 9000 | 4,09 |
| 3750 | 2,03 | more | on request |

Double sided timing belts

On demand it is possible to supply ELA-flex SD[®] as double sided belts. Please ask for the minimum quantity.

Product certification

- ELATECH[®] belts are certified according to RoHS 2011/65/UE

Special cords

In order to solve any design needs, ELA-flex SD[®] belts may be produced with special cords:

- HPL** high performance
- HFE** high flexibility
- INOX** stainless steel for high aggressive environments
- ARAMID** low weight, non magnetic (Bifilar cords construction available on request)

Antistatic belts

On request it is possible to deliver ELA-flex SD[®] belts with anti-static properties by using a specific electrically conductive coating or a special compound. A minimum quantity is applied.

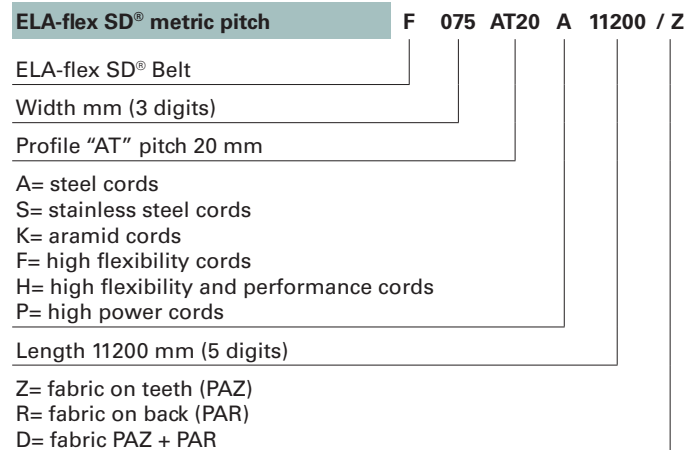
Thickness and width tolerance

Standard ELA-flex SD[®] belts are ground on the back and are manufactured at precise width (see technical tables).

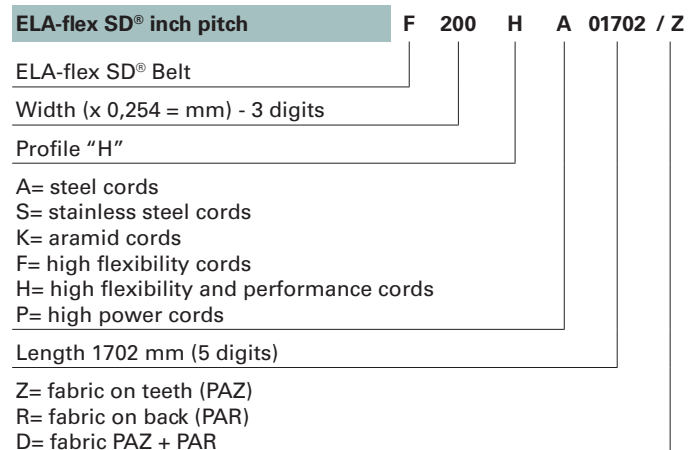
For special application needs, special thickness and width tolerances can be produced.

Belt designation

Ordering example "AT" metric pitch:

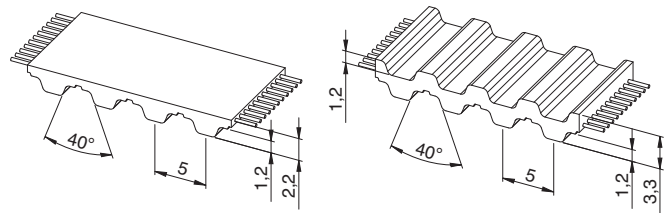


Ordering example "H" inch pitch:



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 5 mm
- Ideal for drives where high belt flexibility is required
- Allows the use of small diameter pulleys
- Transmissible power up to 5 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 10 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|------|------|------|------|------|------|
| Allowable tensile load [N] | 384 | 610 | 930 | 1215 | 1890 | 2815 | 3775 | 5665 |
| Weight [kg/m] | 0,02 | 0,03 | 0,05 | 0,07 | 0,11 | 0,16 | 0,21 | 0,32 |

Other widths are available on request

Tooth shear strength

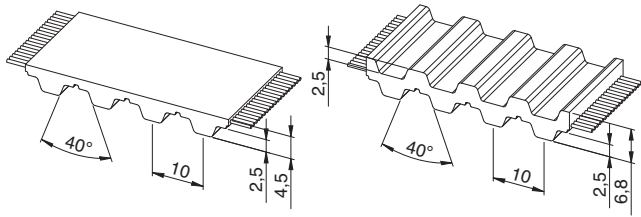
| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 1,966 | 1,915 | 1,872 | 1,834 | 1,802 | 1,773 | 1,663 | 1,583 | 1,520 | 1,468 | 1,425 | 1,388 | 1,354 | 1,325 | 1,299 | 1,274 |
| P _{spez} [W/cm] | 0,000 | 0,040 | 0,078 | 0,115 | 0,151 | 0,186 | 0,348 | 0,497 | 0,637 | 0,769 | 0,895 | 1,017 | 1,135 | 1,249 | 1,360 | 1,467 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 1,252 | 1,231 | 1,211 | 1,204 | 1,194 | 1,176 | 1,160 | 1,145 | 1,131 | 1,116 | 1,091 | 1,068 | 1,046 | 1,026 | 1,007 | 0,989 |
| P _{spez} [W/cm] | 1,573 | 1,676 | 1,776 | 1,815 | 1,875 | 1,971 | 2,065 | 2,158 | 2,250 | 2,338 | 2,513 | 2,684 | 2,847 | 3,007 | 3,162 | 3,314 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 0,972 | 0,957 | 0,942 | 0,928 | 0,895 | 0,866 | 0,840 | 0,815 | 0,793 | 0,772 | 0,753 | 0,735 | 0,717 | 0,701 | 0,686 | 0,672 |
| P _{spez} [W/cm] | 3,462 | 3,609 | 3,749 | 3,886 | 4,218 | 4,533 | 4,835 | 5,120 | 5,395 | 5,658 | 5,912 | 6,153 | 6,382 | 6,607 | 6,824 | 7,033 |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 10 | 30 mm | 15 | 30 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 10 mm
- Ideal for drives where high belt flexibility is required
- Allows the use of small diameter pulleys
- Transmissible power up to 30 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**

STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 10 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|------|------|------|------|-------|-------|
| Allowable tensile load [N] | 1150 | 1840 | 2760 | 3570 | 5640 | 8400 | 11160 | 16790 |
| Weight [kg/m] | 0,05 | 0,07 | 0,12 | 0,15 | 0,23 | 0,35 | 0,46 | 0,69 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 8,244 | 8,009 | 7,805 | 7,627 | 7,472 | 7,339 | 6,804 | 6,411 | 6,105 | 5,857 | 5,648 | 5,467 | 5,306 | 5,163 | 5,034 | 4,916 |
| P _{spez} [W/cm] | 0,000 | 0,168 | 0,327 | 0,479 | 0,626 | 0,768 | 1,425 | 2,014 | 2,557 | 3,066 | 3,549 | 4,007 | 4,445 | 4,866 | 5,271 | 5,663 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 4,808 | 4,708 | 4,614 | 4,577 | 4,526 | 4,444 | 4,366 | 4,292 | 4,222 | 4,157 | 4,033 | 3,920 | 3,815 | 3,718 | 3,626 | 3,541 |
| P _{spez} [W/cm] | 6,042 | 6,409 | 6,764 | 6,902 | 7,109 | 7,445 | 7,771 | 8,090 | 8,401 | 8,706 | 9,291 | 9,851 | 10,386 | 10,901 | 11,389 | 11,866 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 3,460 | 3,385 | 3,312 | 3,245 | 3,088 | 2,946 | 2,817 | 2,701 | 2,593 | 2,492 | 2,398 | 2,311 | 2,228 | 2,150 | 2,077 | 2,007 |
| P _{spez} [W/cm] | 12,318 | 12,761 | 13,179 | 13,592 | 14,549 | 15,424 | 16,224 | 16,969 | 17,646 | 18,269 | 18,836 | 19,359 | 19,832 | 20,264 | 20,661 | 21,015 |

Flexibility

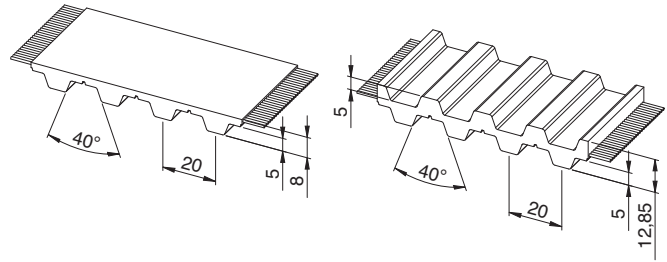
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 12 | 60 mm | 20 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 20 mm
- Ideal for drives where high belt flexibility is required
- Transmissible power up to 100 kW
- Double sided tooth available (on request for special cords)
- **Dual toothing available from 1500 mm**
- **HPL cord execution available**



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 4165 | 5390 | 8330 | 12740 | 16905 | 25480 |
| Weight [kg/m] | 0,18 | 0,23 | 0,37 | 0,55 | 0,73 | 1,10 |

Other widths are available on request

Tooth shear strength

| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| M _{spez} [Ncm/cm] | 33,263 | 32,181 | 31,242 | 30,424 | 29,714 | 29,097 | 26,579 | 24,777 | 23,393 | 22,269 | 21,320 | 20,502 | 19,783 | 19,140 | 18,561 | 18,029 |
| P _{spez} [W/cm] | 0,000 | 0,674 | 1,309 | 1,911 | 2,489 | 3,047 | 5,566 | 7,783 | 9,798 | 11,659 | 13,395 | 15,028 | 16,572 | 18,038 | 19,435 | 20,766 |

| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| M _{spez} [Ncm/cm] | 17,542 | 17,093 | 16,673 | 16,511 | 16,278 | 15,909 | 15,562 | 15,234 | 14,922 | 14,623 | 14,069 | 13,563 | 13,092 | 12,659 | 12,252 | 11,870 |
| P _{spez} [W/cm] | 22,042 | 23,268 | 24,442 | 24,896 | 25,568 | 26,654 | 27,702 | 28,714 | 29,689 | 30,624 | 32,411 | 34,086 | 35,643 | 37,116 | 38,487 | 39,773 |

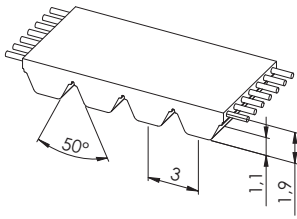
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|-------|
| M _{spez} [Ncm/cm] | 11,510 | 11,173 | 10,851 | 10,546 | 9,842 | 9,209 | 8,639 | 8,114 | 7,630 | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 40,978 | 42,117 | 43,178 | 44,170 | 46,377 | 48,213 | 49,753 | 50,976 | 51,931 | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 15 | 120 mm | 25 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 900 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 3 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 5 kW
- **Max. length 2400 mm**

STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 8 | 10 | 12 | 16 | 20 | 25 | 32 | 50 | 75 | 100 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Allowable tensile load [N] | 225 | 290 | 350 | 480 | 610 | 770 | 990 | 1535 | 2305 | 3105 |
| Weight [kg/m] | 0,018 | 0,022 | 0,026 | 0,035 | 0,044 | 0,054 | 0,070 | 0,108 | 0,162 | 0,216 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 1,550 | 1,530 | 1,520 | 1,500 | 1,490 | 1,470 | 1,420 | 1,390 | 1,360 | 1,320 | 1,290 | 1,250 | 1,224 | 1,196 | 1,170 | 1,147 |
| P _{spez} [W/cm] | 0,000 | 0,032 | 0,064 | 0,094 | 0,125 | 0,154 | 0,298 | 0,437 | 0,571 | 0,693 | 0,809 | 0,919 | 1,025 | 1,127 | 1,226 | 1,321 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 1,124 | 1,104 | 1,084 | 1,077 | 1,066 | 1,048 | 1,031 | 1,016 | 1,001 | 0,986 | 0,959 | 0,934 | 0,911 | 0,889 | 0,868 | 0,849 |
| P _{spez} [W/cm] | 1,413 | 1,502 | 1,589 | 1,623 | 1,674 | 1,756 | 1,836 | 1,914 | 1,991 | 2,065 | 2,209 | 2,347 | 2,479 | 2,606 | 2,728 | 2,845 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 0,831 | 0,814 | 0,797 | 0,782 | 0,746 | 0,713 | 0,683 | 0,656 | 0,631 | 0,607 | 0,585 | 0,565 | 0,545 | 0,527 | 0,510 | 0,493 |
| P _{spez} [W/cm] | 2,958 | 3,068 | 3,173 | 3,274 | 3,513 | 3,733 | 3,935 | 4,122 | 4,293 | 4,452 | 4,597 | 4,732 | 4,855 | 4,967 | 5,070 | 5,164 |

Flexibility

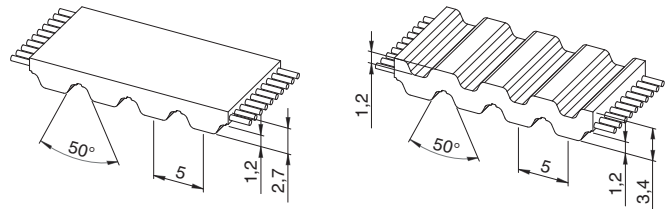
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 15 | 20 mm | 20 | 20 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 5 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 15 kW
- Double sided tooth available (on request for special cords)
- **Dual toothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 10 | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|------|------|------|------|-------|-------|
| Allowable tensile load [N] | 1150 | 1840 | 2760 | 3570 | 5640 | 8400 | 11160 | 16790 |
| Weight [kg/m] | 0,03 | 0,05 | 0,08 | 0,11 | 0,17 | 0,25 | 0,33 | 0,50 |

Other widths are available on request

Tooth shear strength

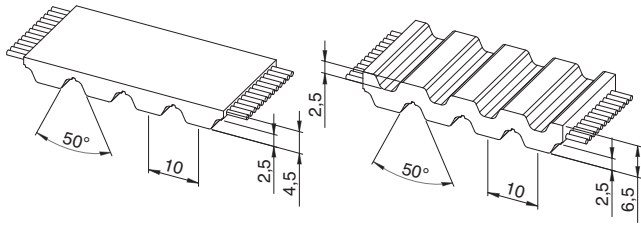
| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 2,897 | 2,855 | 2,817 | 2,783 | 2,753 | 2,725 | 2,62 | 2,54 | 2,458 | 2,383 | 2,317 | 2,258 | 2,204 | 2,153 | 2,108 | 2,066 |
| P _{spez} [W/cm] | 0,000 | 0,060 | 0,118 | 0,175 | 0,231 | 0,285 | 0,549 | 0,798 | 1,030 | 1,248 | 1,456 | 1,655 | 1,846 | 2,029 | 2,207 | 2,379 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 2,027 | 1,990 | 1,955 | 1,942 | 1,923 | 1,892 | 1,863 | 1,836 | 1,809 | 1,784 | 1,736 | 1,693 | 1,653 | 1,615 | 1,580 | 1,546 |
| P _{spez} [W/cm] | 2,547 | 2,709 | 2,866 | 2,929 | 3,020 | 3,170 | 3,316 | 3,460 | 3,599 | 3,736 | 4,000 | 4,256 | 4,500 | 4,734 | 4,962 | 5,181 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 1,514 | 1,485 | 1,456 | 1,429 | 1,367 | 1,311 | 1,260 | 1,213 | 1,169 | 1,128 | 1,091 | 1,055 | 1,023 | 0,991 | 0,961 | 0,933 |
| P _{spez} [W/cm] | 5,391 | 5,598 | 5,795 | 5,986 | 6,442 | 6,862 | 7,255 | 7,619 | 7,957 | 8,271 | 8,568 | 8,839 | 9,101 | 9,337 | 9,555 | 9,766 |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 15 | 30 mm | 25 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |


STANDARD TOLERANCES

 WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 10 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 70 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**
- **HPL cord execution available**

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 16 | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 2695 | 4165 | 5390 | 8330 | 12740 | 16905 | 25480 |
| Weight [kg/m] | 0,09 | 0,14 | 0,18 | 0,29 | 0,43 | 0,57 | 0,86 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 14,096 | 13,856 | 13,633 | 13,424 | 13,23 | 13,049 | 12,312 | 11,951 | 11,457 | 11,025 | 10,644 | 10,305 | 10,000 | 9,723 | 9,469 | 9,235 |
| P _{spez} [W/cm] | 0,000 | 0,290 | 0,571 | 0,843 | 1,108 | 1,366 | 2,578 | 3,754 | 4,799 | 5,772 | 6,687 | 7,553 | 8,377 | 9,163 | 9,915 | 10,637 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 9,018 | 8,815 | 8,626 | 8,553 | 8,447 | 8,279 | 8,119 | 7,968 | 7,824 | 7,686 | 7,429 | 7,191 | 6,971 | 6,766 | 6,573 | 6,393 |
| P _{spez} [W/cm] | 11,331 | 12,000 | 12,645 | 12,897 | 13,268 | 13,871 | 14,454 | 15,018 | 15,566 | 16,097 | 17,113 | 18,072 | 18,978 | 19,836 | 20,649 | 21,420 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 6,222 | 6,060 | 5,907 | 5,761 | 5,424 | 5,120 | 4,844 | 4,591 | 4,357 | 4,139 | 3,936 | 3,746 | 3,566 | 3,397 | 3,236 | 3,084 |
| P _{spez} [W/cm] | 22,152 | 22,846 | 23,504 | 24,130 | 25,557 | 26,807 | 27,897 | 28,841 | 29,652 | 30,339 | 30,912 | 31,377 | 31,742 | 32,012 | 32,193 | 32,289 |

Flexibility

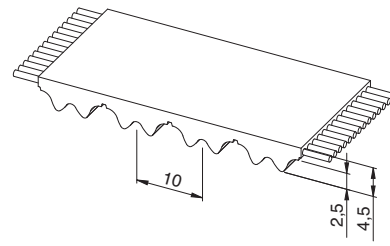
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 15 | 50 mm | 25 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords.
- Metric pitch 10 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 70 kW
- **Max. length 2400 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 16 | 25 | 32 | 50 | 75 | 100 |
|----------------------------|------|------|------|------|-------|-------|
| Allowable tensile load [N] | 2430 | 4040 | 5120 | 8090 | 12400 | 16440 |
| Weight [kg/m] | 0,09 | 0,14 | 0,18 | 0,29 | 0,43 | 0,57 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 15,510 | 15,220 | 14,950 | 14,700 | 14,470 | 14,260 | 13,410 | 13,150 | 12,600 | 12,130 | 11,710 | 11,340 | 11,000 | 10,690 | 10,420 | 10,160 |
| P _{spez} [W/cm] | 0,000 | 0,320 | 0,630 | 0,920 | 1,210 | 1,490 | 2,810 | 4,130 | 5,280 | 6,350 | 7,360 | 8,310 | 9,210 | 10,080 | 10,910 | 11,700 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 9,920 | 9,700 | 9,490 | 9,410 | 9,290 | 9,110 | 8,930 | 8,760 | 8,610 | 8,450 | 8,170 | 7,910 | 7,670 | 7,440 | 7,230 | 7,030 |
| P _{spez} [W/cm] | 12,460 | 13,200 | 13,910 | 14,190 | 14,590 | 15,260 | 15,900 | 16,520 | 17,120 | 17,710 | 18,820 | 19,880 | 20,880 | 21,820 | 22,710 | 23,560 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 6,840 | 6,670 | 6,500 | 6,340 | 5,970 | 5,630 | 5,330 | 5,050 | 4,790 | 4,550 | 4,330 | 4,120 | 3,920 | 3,740 | 3,560 | 3,390 |
| P _{spez} [W/cm] | 24,370 | 25,130 | 25,850 | 26,540 | 28,110 | 29,490 | 30,690 | 31,730 | 32,620 | 33,370 | 34,000 | 34,510 | 34,920 | 35,210 | 35,410 | 35,520 |

Flexibility

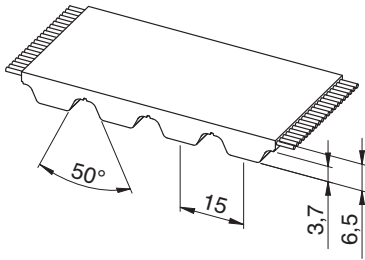
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 15 | 50 mm | 25 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |

Note

Special pulley profile required.
Contact Elatech® technical dept. for details.


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords.
- Metric pitch 15 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 200 kW

STANDARD TOLERANCES

WIDTH TOLERANCE: ±1,0 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|-------|-------|-------|-------|
| Allowable tensile load [N] | 5760 | 7200 | 11520 | 17280 | 23040 | 34560 |
| Weight [kg/m] | 0,22 | 0,28 | 0,44 | 0,66 | 0,88 | 1,33 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 34,33 | 33,874 | 33,435 | 33,012 | 32,606 | 32,217 | 30,489 | 27,999 | 26,49 | 25,174 | 24,019 | 22,992 | 22,068 | 21,230 | 20,467 | 19,760 |
| P _{spez} [W/cm] | 0,000 | 0,709 | 1,400 | 2,074 | 2,731 | 3,374 | 6,385 | 8,795 | 11,095 | 13,180 | 15,090 | 16,853 | 18,487 | 20,008 | 21,431 | 22,760 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 19,103 | 18,495 | 17,922 | 17,704 | 17,385 | 16,878 | 16,399 | 15,940 | 15,508 | 15,093 | 14,317 | 13,603 | 12,939 | 12,323 | 11,746 | 11,201 |
| P _{spez} [W/cm] | 24,004 | 25,176 | 26,273 | 26,696 | 27,306 | 28,278 | 29,191 | 30,044 | 30,854 | 31,608 | 32,981 | 34,186 | 35,227 | 36,131 | 36,897 | 37,533 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 10,688 | 10,203 | 9,740 | 9,301 | 8,289 | 7,377 | 6,546 | 5,784 | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 38,052 | 38,463 | 38,757 | 38,957 | 39,057 | 38,622 | 37,700 | 36,342 | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 25 | 120 mm | 40 | 180 mm |

Min. available length

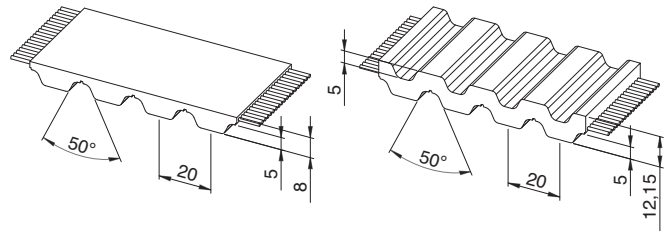
| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |

Note

Special pulley profile required.
 Contact Elatech® technical dept. for details.

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Metric pitch 20 mm
- Tooth profile and dimension are optimised to guarantee uniform load distribution and minimum deformation under load
- High resistance and low stretch steel cords to guarantee high stability and low elongation
- Reduced polygonal effect with reduced vibration & noise
- Transmissible power up to 200 kW
- Double sided tooth available (on request for special cords)
- **Dual toothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------------------|------|------|-------|-------|-------|-------|
| Allowable tensile load [N] | 5760 | 7200 | 11520 | 17280 | 23040 | 34560 |
| Weight [kg/m] | 0,24 | 0,31 | 0,48 | 0,73 | 0,97 | 1,45 |

Other widths are available on request

Tooth shear strength

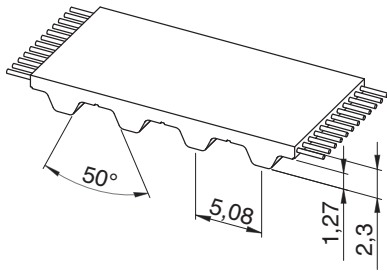
| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 48,192 | 47,288 | 46,438 | 45,639 | 44,885 | 44,175 | 41,199 | 38,923 | 36,911 | 35,157 | 33,617 | 32,248 | 31,016 | 29,899 | 28,880 | 27,938 |
| P _{spez} [W/cm] | 0,000 | 0,990 | 1,945 | 2,867 | 3,760 | 4,626 | 8,628 | 12,227 | 15,460 | 18,407 | 21,120 | 23,637 | 25,982 | 28,177 | 30,241 | 32,180 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 27,063 | 26,251 | 25,487 | 25,197 | 24,771 | 24,096 | 23,456 | 22,845 | 22,269 | 21,715 | 20,681 | 19,729 | 18,844 | 18,023 | 17,252 | 16,527 |
| P _{spez} [W/cm] | 34,006 | 35,734 | 37,363 | 37,994 | 38,907 | 40,370 | 41,755 | 43,059 | 44,305 | 45,477 | 47,641 | 49,58 | 51,303 | 52,841 | 54,196 | 55,377 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 15,842 | 15,196 | 14,579 | 13,993 | 12,643 | 11,427 | 10,320 | 9,304 | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 56,402 | 57,284 | 58,009 | 58,609 | 59,576 | 59,829 | 59,432 | 58,456 | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 18 | 120 mm | 25 | 180 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 900 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to UNI/ISO 5296
- Imperial pitch 1/5" = 5,08 mm
- Allow to use small diameter pulley
- Transmissible power up to 5 kW

STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [inch]/[mm] | 0,25 / 6,35 | 0,37 / 9,53 | 0,50 / 12,7 | 0,75 / 19,1 | 1,00 / 25,4 | 1,50 / 38,1 | 2,00 / 50,8 | 4,00 / 101,6 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Allowable tensile load [N] | 224 | 352 | 480 | 704 | 960 | 1440 | 1920 | 3840 |
| Weight [kg/m] | 0,016 | 0,024 | 0,033 | 0,049 | 0,065 | 0,098 | 0,130 | 0,260 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 2,029 | 1,978 | 1,932 | 1,894 | 1,860 | 1,830 | 1,717 | 1,635 | 1,570 | 1,518 | 1,473 | 1,434 | 1,400 | 1,370 | 1,342 | 1,317 |
| P _{spez} [W/cm] | 0,000 | 0,041 | 0,081 | 0,119 | 0,156 | 0,192 | 0,360 | 0,514 | 0,658 | 0,795 | 0,926 | 1,051 | 1,173 | 1,291 | 1,405 | 1,517 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 1,294 | 1,273 | 1,252 | 1,245 | 1,234 | 1,216 | 1,200 | 1,184 | 1,169 | 1,155 | 1,129 | 1,104 | 1,082 | 1,061 | 1,041 | 1,023 |
| P _{spez} [W/cm] | 1,626 | 1,732 | 1,836 | 1,877 | 1,938 | 2,037 | 2,136 | 2,231 | 2,326 | 2,418 | 2,600 | 2,776 | 2,945 | 3,110 | 3,271 | 3,427 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 1,006 | 0,990 | 0,974 | 0,960 | 0,926 | 0,896 | 0,868 | 0,843 | 0,820 | 0,798 | 0,779 | 0,759 | 0,741 | 0,725 | 0,709 | 0,695 |
| P _{spez} [W/cm] | 3,581 | 3,730 | 3,877 | 4,020 | 4,362 | 4,690 | 5,001 | 5,298 | 5,580 | 5,849 | 6,115 | 6,360 | 6,599 | 6,835 | 7,053 | 7,272 |

Flexibility

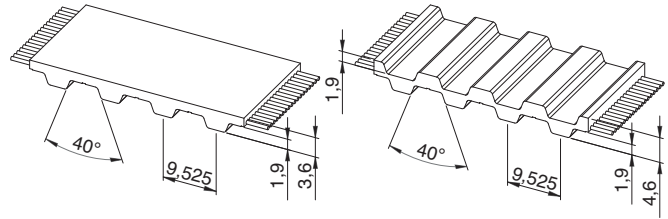
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 10 | 30 mm | 15 | 30 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 4" | ≥ 800 mm | ≥ 900 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to UNI/ISO 5296
- Imperial pitch 3/8" = 9,525 mm
- Transmissible power up to 20 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [inch]/[mm] | 0,50 / 12,7 | 0,75 / 19,1 | 1,00 / 25,4 | 1,50 / 38,1 | 2,00 / 50,8 | 3,00 / 76,2 | 4,00 / 101,6 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Allowable tensile load [N] | 1380 | 2185 | 2875 | 4255 | 5635 | 8510 | 11385 |
| Weight [kg/m] | 0,05 | 0,08 | 0,10 | 0,15 | 0,20 | 0,30 | 0,40 |

Other widths are available on request

Tooth shear strength

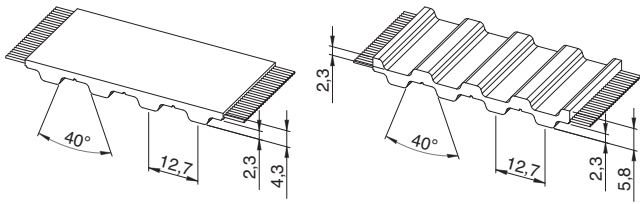
| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 5,852 | 5,673 | 5,518 | 5,383 | 5,266 | 5,165 | 4,789 | 4,516 | 4,304 | 4,131 | 3,984 | 3,857 | 3,744 | 3,644 | 3,553 | 3,470 |
| P _{spez} [W/cm] | 0,000 | 0,119 | 0,231 | 0,338 | 0,441 | 0,541 | 1,003 | 1,419 | 1,803 | 2,163 | 2,503 | 2,827 | 3,137 | 3,434 | 3,721 | 3,997 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 3,393 | 3,321 | 3,256 | 3,230 | 3,194 | 3,137 | 3,082 | 3,029 | 2,980 | 2,933 | 2,845 | 2,765 | 2,692 | 2,623 | 2,559 | 2,498 |
| P _{spez} [W/cm] | 4,263 | 4,521 | 4,774 | 4,871 | 5,017 | 5,255 | 5,486 | 5,709 | 5,930 | 6,143 | 6,555 | 6,949 | 7,330 | 7,689 | 8,039 | 8,371 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 2,441 | 2,388 | 2,336 | 2,288 | 2,177 | 2,077 | 1,986 | 1,903 | 1,827 | 1,755 | 1,689 | 1,627 | 1,569 | 1,513 | 1,461 | 1,411 |
| P _{spez} [W/cm] | 8,689 | 9,000 | 9,295 | 9,581 | 10,258 | 10,874 | 11,437 | 11,953 | 12,433 | 12,867 | 13,263 | 13,626 | 13,965 | 14,258 | 14,537 | 14,779 |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 15 | 60 mm | 20 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 4" | ≥ 800 mm | ≥ 900 mm |


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to UNI/ISO 5296
- Imperial pitch 1/2" = 12,7 mm
- Allow to use small diameter pulley
- Transmissible power up to 30 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**

STANDARD TOLERANCES

 WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [inch]/[mm] | 0,50 / 12,7 | 0,75 / 19,1 | 1,00 / 25,4 | 1,50 / 38,1 | 2,00 / 50,8 | 3,00 / 76,2 | 4,00 / 101,6 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Allowable tensile load [N] | 1380 | 2185 | 2875 | 4255 | 5635 | 8510 | 11385 |
| Weight [kg/m] | 0,056 | 0,084 | 0,113 | 0,169 | 0,225 | 0,338 | 0,450 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 9,156 | 8,883 | 8,647 | 8,443 | 8,263 | 8,107 | 7,523 | 7,089 | 6,753 | 6,478 | 6,246 | 6,046 | 5,870 | 5,712 | 5,569 | 5,437 |
| P _{spez} [W/cm] | 0,000 | 0,186 | 0,362 | 0,530 | 0,692 | 0,849 | 1,576 | 2,227 | 2,829 | 3,392 | 3,924 | 4,431 | 4,917 | 5,383 | 5,831 | 6,263 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 5,318 | 5,207 | 5,104 | 5,063 | 5,007 | 4,916 | 4,829 | 4,748 | 4,671 | 4,596 | 4,461 | 4,334 | 4,218 | 4,111 | 4,010 | 3,915 |
| P _{spez} [W/cm] | 6,682 | 7,088 | 7,482 | 7,635 | 7,864 | 8,236 | 8,596 | 8,949 | 9,293 | 9,626 | 10,277 | 10,891 | 11,485 | 12,054 | 12,597 | 13,119 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 3,826 | 3,741 | 3,663 | 3,588 | 3,412 | 3,256 | 3,115 | 2,983 | 2,864 | 2,753 | 2,650 | 2,553 | 2,462 | 2,375 | 2,294 | 2,215 |
| P _{spez} [W/cm] | 13,622 | 14,104 | 14,573 | 15,027 | 16,077 | 17,049 | 17,939 | 18,744 | 19,494 | 20,179 | 20,811 | 21,385 | 21,912 | 22,382 | 22,821 | 23,197 |

Flexibility

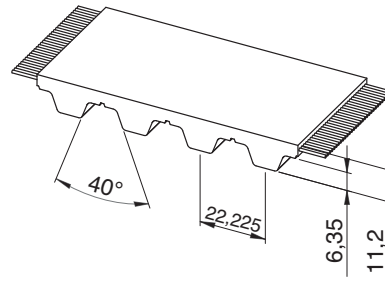
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 14 | 60 mm | 20 | 80 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 4" | ≥ 800 mm | ≥ 900 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with steel tension cords
- Tooth profile according to UNI/ISO 5296
- Imperial pitch $7/8'' = 22,225$ mm
- Transmissible power up to 100 kW



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [inch]/[mm] | 1,00 / 25,4 | 2,00 / 50,8 | 3,00 / 76,2 | 4,00 / 101,6 | 6,00 / 152,4 |
|----------------------------|-------------|-------------|-------------|--------------|--------------|
| Allowable tensile load [N] | 4165 | 8575 | 12985 | 17150 | 25970 |
| Weight [kg/m] | 0,27 | 0,53 | 0,80 | 1,06 | 1,59 |

Other widths are available on request

Tooth shear strength

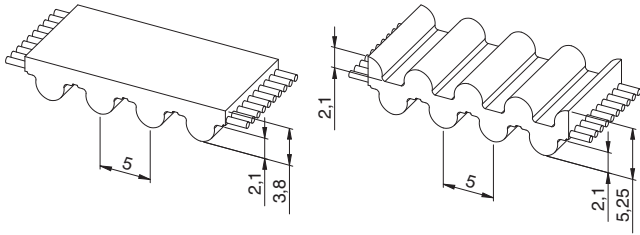
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| M _{spez} [Ncm/cm] | 33,957 | 32,889 | 31,932 | 31,074 | 30,306 | 29,618 | 26,46 | 24,554 | 23,178 | 22,100 | 21,213 | 20,459 | 19,804 | 19,224 | 18,704 | 18,233 |
| P _{spez} [W/cm] | 0,000 | 0,689 | 1,337 | 1,952 | 2,539 | 3,101 | 5,541 | 7,713 | 9,708 | 11,571 | 13,327 | 14,996 | 16,590 | 18,117 | 19,586 | 21,001 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 17,802 | 17,405 | 17,037 | 16,897 | 16,693 | 16,372 | 16,070 | 15,785 | 15,515 | 15,259 | 14,782 | 14,347 | 13,946 | 13,574 | 13,228 | 12,904 |
| P _{spez} [W/cm] | 22,369 | 23,692 | 24,975 | 25,477 | 26,22 | 27,43 | 28,606 | 29,752 | 30,867 | 31,955 | 34,053 | 36,054 | 37,967 | 39,798 | 41,553 | 43,237 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | - | - | - | - | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 12,599 | 12,312 | 12,040 | 11,782 | - | - | - | - | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 44,855 | 46,411 | 47,907 | 49,347 | - | - | - | - | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 18 | 150 mm | 20 | 180 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 4" | ≥ 900 mm | ≥ 900 mm |
| 6" | ≥ 1600 mm | ≥ 1800 mm |



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with round tooth profile and steel tension cords
- Tooth profile according to ISO 13050
- Metric pitch 5 mm
- The round tooth profile allows a uniform load distribution that guarantees high performance, high transmissible torque and precise tooth engagement
- Transmissible power up to 6 kW
- Double sided tooth available (on request for special cords)
- **Dual toothing available from 1500 mm**

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
 THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 10 | 15 | 25 | 50 | 100 | 150 |
|----------------------------|------|------|------|------|-------|-------|
| Allowable tensile load [N] | 1150 | 1725 | 2760 | 5635 | 11155 | 16790 |
| Weight [kg/m] | 0,05 | 0,07 | 0,11 | 0,23 | 0,46 | 0,68 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 2,928 | 2,885 | 2,845 | 2,809 | 2,776 | 2,747 | 2,637 | 2,457 | 2,395 | 2,333 | 2,273 | 2,217 | 2,166 | 2,118 | 2,073 | 2,031 |
| P _{spez} [W/cm] | 0,000 | 0,060 | 0,119 | 0,176 | 0,233 | 0,288 | 0,552 | 0,772 | 1,003 | 1,221 | 1,428 | 1,625 | 1,814 | 1,996 | 2,170 | 2,339 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 1,992 | 1,955 | 1,920 | 1,906 | 1,887 | 1,855 | 1,826 | 1,797 | 1,770 | 1,744 | 1,695 | 1,649 | 1,607 | 1,567 | 1,530 | 1,495 |
| P _{spez} [W/cm] | 2,503 | 2,661 | 2,814 | 2,875 | 2,964 | 3,109 | 3,25 | 3,387 | 3,521 | 3,652 | 3,904 | 4,145 | 4,375 | 4,595 | 4,806 | 5,009 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 1,461 | 1,430 | 1,400 | 1,371 | 1,305 | 1,245 | 1,190 | 1,140 | 1,093 | 1,050 | 1,009 | 0,971 | 0,935 | 0,901 | 0,869 | 0,838 |
| P _{spez} [W/cm] | 5,203 | 5,390 | 5,570 | 5,743 | 6,148 | 6,517 | 6,854 | 7,161 | 7,440 | 7,695 | 7,926 | 8,135 | 8,324 | 8,493 | 8,644 | 8,778 |

Flexibility

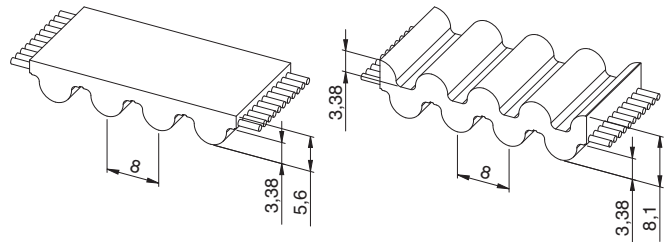
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 16 | 30 mm | 25 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with round tooth profile and steel tension cords
- Tooth profile according to ISO 13050
- Metric pitch 8 mm
- The round tooth profile allows a uniform load distribution that guarantees high performance, high transmissible torque and precise tooth engagement
- Transmissible power up to 80 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
 THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 10 | 15 | 20 | 30 | 50 | 85 | 100 | 150 |
|----------------------------|------|------|------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 1715 | 2450 | 3185 | 4900 | 8330 | 14455 | 16905 | 25480 |
| Weight [kg/m] | 0,07 | 0,10 | 0,13 | 0,20 | 0,33 | 0,56 | 0,66 | 1,00 |

Other widths are available on request

Tooth shear strength

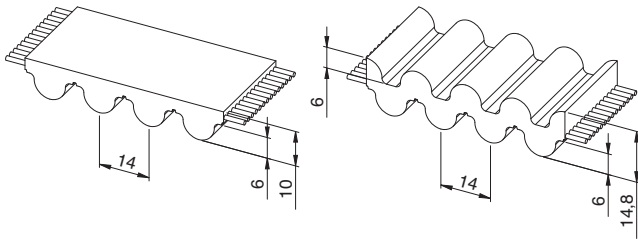
| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 9,422 | 9,246 | 9,083 | 8,933 | 8,794 | 8,666 | 8,160 | 7,853 | 7,516 | 7,220 | 6,959 | 6,728 | 6,519 | 6,330 | 6,156 | 5,996 |
| P _{spez} [W/cm] | 0,000 | 0,194 | 0,380 | 0,561 | 0,737 | 0,907 | 1,709 | 2,467 | 3,148 | 3,780 | 4,372 | 4,931 | 5,461 | 5,965 | 6,446 | 6,907 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 5,848 | 5,709 | 5,580 | 5,530 | 5,458 | 5,343 | 5,233 | 5,130 | 5,031 | 4,937 | 4,761 | 4,599 | 4,448 | 4,308 | 4,176 | 4,053 |
| P _{spez} [W/cm] | 7,348 | 7,772 | 8,180 | 8,338 | 8,572 | 8,951 | 9,316 | 9,669 | 10,010 | 10,340 | 10,968 | 11,557 | 12,110 | 12,630 | 13,119 | 13,580 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 3,936 | 3,826 | 3,721 | 3,621 | 3,390 | 3,183 | 2,994 | 2,821 | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 14,013 | 14,421 | 14,805 | 15,166 | 15,975 | 16,663 | 17,241 | 17,720 | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 18 | 50 mm | 30 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with round tooth profile and steel tension cords
- Tooth profile according to ISO 13050
- Metric pitch 14 mm
- The round tooth profile allows a uniform load distribution that guarantees high performance, high transmissible torque and precise tooth engagement
- Transmissible power up to 200 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
 THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 40 | 55 | 85 | 115 | 150 |
|----------------------------|------|-------|-------|-------|-------|
| Allowable tensile load [N] | 9120 | 12480 | 19680 | 26400 | 34560 |
| Weight [kg/m] | 0,42 | 0,57 | 0,89 | 1,24 | 1,70 |

Other widths are available on request

Tooth shear strength

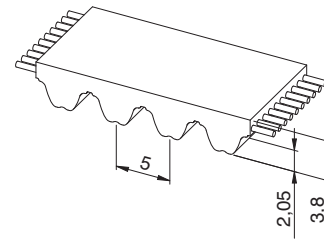
| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 28,966 | 28,452 | 27,978 | 27,540 | 27,136 | 26,762 | 24,458 | 23,239 | 22,100 | 21,091 | 20,195 | 19,394 | 18,672 | 18,014 | 17,410 | 16,853 |
| P _{spez} [W/cm] | 0,000 | 0,596 | 1,172 | 1,730 | 2,273 | 2,802 | 5,122 | 7,300 | 9,257 | 11,042 | 12,688 | 14,216 | 15,641 | 16,976 | 18,230 | 19,411 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 16,335 | 15,852 | 15,398 | 15,225 | 14,972 | 14,569 | 14,187 | 13,824 | 13,478 | 13,148 | 12,530 | 11,960 | 11,431 | 10,938 | 10,476 | 10,041 |
| P _{spez} [W/cm] | 20,526 | 21,578 | 22,573 | 22,957 | 23,516 | 24,408 | 25,254 | 26,056 | 26,816 | 27,536 | 28,865 | 30,056 | 31,121 | 32,069 | 32,908 | 33,645 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | - | - | - | - | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 9,630 | 9,242 | 8,872 | 8,521 | - | - | - | - | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 34,286 | 34,837 | 35,303 | 35,688 | - | - | - | - | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 28 | 120 mm | 28 | 180 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with round tooth profile and steel tension cords
- Tooth profile according to ISO 13050
- Metric pitch 5 mm
- PAZ fabric on tooth delivered as standard decreases noise in high speed drives
- Transmissible power up to 6 kW

STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 10 | 15 | 25 | 50 | 100 | 150 |
|----------------------------|------|------|------|------|-------|-------|
| Allowable tensile load [N] | 1150 | 1725 | 2760 | 5635 | 11155 | 16790 |
| Weight [kg/m] | 0,05 | 0,07 | 0,11 | 0,23 | 0,46 | 0,69 |

Other widths are available on request

Tooth shear strength

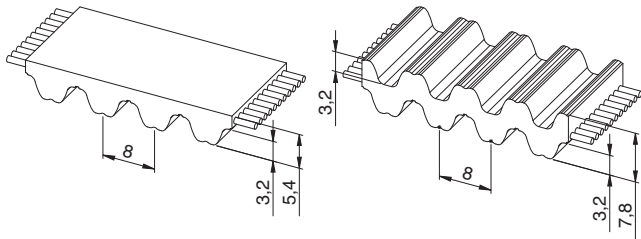
| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 3,008 | 2,964 | 2,924 | 2,888 | 2,856 | 2,826 | 2,716 | 2,616 | 2,555 | 2,492 | 2,432 | 2,376 | 2,325 | 2,277 | 2,232 | 2,190 |
| P _{spez} [W/cm] | 0,000 | 0,062 | 0,122 | 0,181 | 0,239 | 0,296 | 0,569 | 0,822 | 1,070 | 1,305 | 1,528 | 1,742 | 1,947 | 2,146 | 2,337 | 2,523 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 2,151 | 2,114 | 2,079 | 2,066 | 2,046 | 2,015 | 1,985 | 1,956 | 1,929 | 1,903 | 1,854 | 1,808 | 1,766 | 1,726 | 1,689 | 1,654 |
| P _{spez} [W/cm] | 2,703 | 2,878 | 3,048 | 3,115 | 3,214 | 3,375 | 3,533 | 3,687 | 3,838 | 3,985 | 4,271 | 4,545 | 4,808 | 5,062 | 5,306 | 5,542 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 1,621 | 1,589 | 1,559 | 1,530 | 1,464 | 1,404 | 1,349 | 1,299 | 1,252 | 1,209 | 1,168 | 1,130 | 1,094 | 1,060 | 1,028 | 0,997 |
| P _{spez} [W/cm] | 5,770 | 5,990 | 6,203 | 6,410 | 6,898 | 7,351 | 7,770 | 8,161 | 8,524 | 8,861 | 9,176 | 9,468 | 9,740 | 9,993 | 10,228 | 10,445 |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 16 | 30 mm | 25 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with round tooth profile and steel tension cords
- Tooth profile according to ISO 13050
- Metric pitch 8 mm
- PAZ fabric on tooth delivered as standard decreases noise in high speed drives
- Transmissible power up to 80 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
 THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 10 | 15 | 20 | 30 | 50 | 85 | 100 | 150 |
|----------------------------|------|------|------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 1715 | 2450 | 3185 | 4900 | 8330 | 14455 | 16905 | 25480 |
| Weight [kg/m] | 0,07 | 0,10 | 0,13 | 0,20 | 0,33 | 0,56 | 0,66 | 1,00 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 9,677 | 9,500 | 9,338 | 9,188 | 9,049 | 8,921 | 8,415 | 8,108 | 7,770 | 7,475 | 7,214 | 6,982 | 6,774 | 6,584 | 6,411 | 6,251 |
| P _{spez} [W/cm] | 0,000 | 0,199 | 0,391 | 0,577 | 0,758 | 0,934 | 1,762 | 2,547 | 3,255 | 3,913 | 4,532 | 5,118 | 5,674 | 6,205 | 6,713 | 7,200 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 6,102 | 5,964 | 5,834 | 5,785 | 5,712 | 5,597 | 5,488 | 5,385 | 5,296 | 5,192 | 5,016 | 4,853 | 4,703 | 4,562 | 4,431 | 4,307 |
| P _{spez} [W/cm] | 7,668 | 8,118 | 8,553 | 8,722 | 8,972 | 9,377 | 9,769 | 10,149 | 10,517 | 10,873 | 11,554 | 12,197 | 12,803 | 13,377 | 13,919 | 14,433 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 4,191 | 4,080 | 3,975 | 3,875 | 3,645 | 3,437 | 3,248 | 3,075 | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 14,920 | 15,381 | 15,818 | 16,232 | 17,175 | 17,996 | 18,708 | 19,320 | - | - | - | - | - | - | - | - |

Flexibility

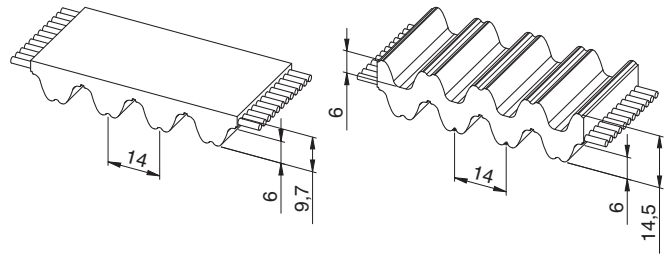
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 18 | 50 mm | 30 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 900 mm | ≥ 900 mm |
| 150 mm | ≥ 1800 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with round tooth profile and steel tension cords
- Tooth profile according to ISO 13050
- Metric pitch 14 mm
- PAZ fabric on tooth delivered as standard decreases noise in high speed drives
- Transmissible power up to 200 kW
- Double sided tooth available (on request for special cords)
- **Dual tothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: ±1,0 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 40 | 55 | 85 | 115 | 150 |
|----------------------------|-------|-------|-------|-------|-------|
| Allowable tensile load [N] | 13600 | 17850 | 28050 | 38250 | 49300 |
| Weight [kg/m] | 0,48 | 0,63 | 1,00 | 1,40 | 1,85 |

Other widths are available on request

Tooth shear strength

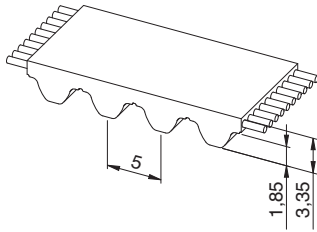
| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 31,194 | 30,595 | 30,041 | 29,530 | 29,059 | 28,623 | 26,687 | 25,467 | 24,328 | 23,319 | 22,423 | 21,623 | 20,900 | 20,242 | 19,638 | 19,081 |
| P _{spez} [W/cm] | 0,000 | 0,641 | 1,258 | 1,855 | 2,434 | 2,997 | 5,589 | 8,000 | 10,190 | 12,209 | 14,088 | 15,849 | 17,508 | 19,076 | 20,564 | 21,978 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 18,563 | 18,080 | 17,626 | 17,453 | 17,200 | 16,797 | 16,415 | 16,052 | 15,707 | 15,377 | 14,758 | 14,188 | 13,659 | 13,166 | 12,704 | 12,269 |
| P _{spez} [W/cm] | 23,325 | 24,611 | 25,84 | 26,316 | 27,016 | 28,141 | 29,22 | 30,255 | 31,249 | 32,202 | 33,998 | 35,656 | 37,187 | 38,602 | 39,907 | 41,111 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | - | - | - | - | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 11,858 | 11,470 | 11,100 | 10,749 | - | - | - | - | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 42,219 | 43,237 | 44,169 | 45,021 | - | - | - | - | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 32 | 140 mm | 32 | 200 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 900 mm | ≥ 900 mm |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |


BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with high tensile load steel cords and high torque capacity
- Tooth profile according to ISO 13050
- Metric pitch 5 mm
- Low noise generation in high speed drives
- Offer excellent operational reliability
- The special profile allows smooth running properties
- Transmissible power up to 6 kW

STANDARD TOLERANCES

 WIDTH TOLERANCE: $\pm 0,5$ [mm]

 THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 10 | 15 | 25 | 50 | 100 |
|----------------------------|-------|-------|-------|-------|-------|
| Allowable tensile load [N] | 1150 | 1725 | 2760 | 5635 | 11155 |
| Weight [kg/m] | 0,046 | 0,068 | 0,114 | 0,228 | 0,456 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 2,936 | 2,892 | 2,853 | 2,817 | 2,784 | 2,755 | 2,645 | 2,497 | 2,435 | 2,372 | 2,313 | 2,257 | 2,205 | 2,157 | 2,113 | 2,071 |
| P _{spez} [W/cm] | 0,000 | 0,061 | 0,119 | 0,177 | 0,233 | 0,288 | 0,554 | 0,784 | 1,020 | 1,242 | 1,453 | 1,654 | 1,847 | 2,033 | 2,212 | 2,385 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 2,031 | 1,995 | 1,960 | 1,946 | 1,927 | 1,895 | 1,865 | 1,837 | 1,810 | 1,784 | 1,734 | 1,689 | 1,647 | 1,607 | 1,570 | 1,535 |
| P _{spez} [W/cm] | 2,553 | 2,715 | 2,873 | 2,935 | 3,026 | 3,175 | 3,321 | 3,462 | 3,600 | 3,735 | 3,996 | 4,245 | 4,483 | 4,712 | 4,931 | 5,142 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 1,501 | 1,470 | 1,440 | 1,411 | 1,345 | 1,285 | 1,230 | 1,180 | 1,133 | 1,090 | 1,049 | 1,011 | 0,975 | 0,941 | 0,909 | 0,878 |
| P _{spez} [W/cm] | 5,345 | 5,54 | 5,728 | 5,910 | 6,336 | 6,726 | 7,083 | 7,411 | 7,711 | 7,987 | 8,238 | 8,469 | 8,678 | 8,868 | 9,040 | 9,195 |

Flexibility

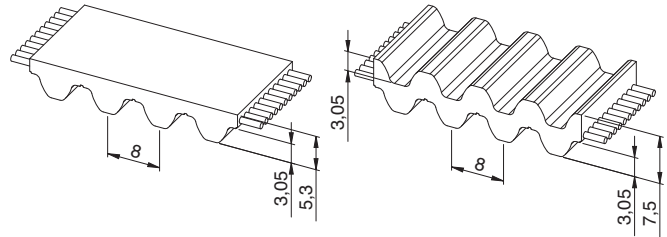
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 16 | 30 mm | 25 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 100 mm | ≥ 800 mm | ≥ 900 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with high tensile load steel cords and high torque capacity
- Tooth profile according to ISO 13050
- Metric pitch 8 mm
- Low noise generation in high speed drives
- Offer excellent operational reliability
- The special profile allows smooth running properties
- Transmissible power up to 80 kW
- Double sided tooth available (on request for special cords)
- **Dual toothing available from 1500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 10 | 15 | 20 | 30 | 50 | 85 | 100 | 150 |
|----------------------------|------|------|------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 1715 | 2490 | 3185 | 4900 | 8330 | 14455 | 16905 | 25480 |
| Weight [kg/m] | 0,07 | 0,10 | 0,13 | 0,20 | 0,33 | 0,56 | 0,66 | 1,00 |

Other widths are available on request

Tooth shear strength

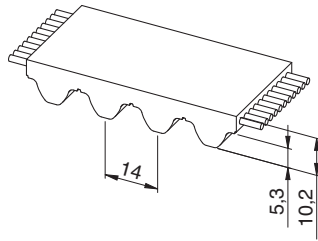
| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 9,435 | 9,301 | 9,176 | 9,057 | 8,946 | 8,841 | 8,401 | 7,908 | 7,567 | 7,268 | 7,005 | 6,772 | 6,561 | 6,370 | 6,195 | 6,034 |
| P _{spez} [W/cm] | 0,000 | 0,195 | 0,384 | 0,569 | 0,749 | 0,926 | 1,759 | 2,484 | 3,169 | 3,805 | 4,401 | 4,963 | 5,496 | 6,003 | 6,487 | 6,950 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 5,885 | 5,745 | 5,615 | 5,565 | 5,492 | 5,376 | 5,266 | 5,162 | 5,063 | 4,968 | 4,790 | 4,627 | 4,475 | 4,334 | 4,202 | 4,077 |
| P _{spez} [W/cm] | 7,394 | 7,821 | 8,231 | 8,391 | 8,626 | 9,007 | 9,374 | 9,729 | 10,072 | 10,404 | 11,035 | 11,628 | 12,184 | 12,707 | 13,199 | 13,662 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 3,960 | 3,849 | 3,743 | 3,643 | 3,410 | 3,201 | 3,011 | 2,837 | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 14,098 | 14,508 | 14,894 | 15,257 | 16,07 | 16,762 | 17,343 | 17,824 | - | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 18 | 50 mm | 30 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 150 mm | ≥ 1600 mm | ≥ 1800 mm |



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with high tensile load steel cords and high torque capacity
- Tooth profile according to ISO 13050
- Metric pitch 14 mm
- Low noise generation in high speed drives
- Offer excellent operational reliability
- The special profile allows smooth running properties
- Transmissible power up to 200 kW

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]

THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 40 | 55 | 85 | 100 |
|----------------------------|-------|-------|-------|-------|
| Allowable tensile load [N] | 13600 | 17850 | 28050 | 33150 |
| Weight [kg/m] | 0,48 | 0,85 | 1,10 | 1,54 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 29,857 | 29,258 | 28,704 | 28,193 | 27,722 | 27,286 | 25,572 | 24,353 | 23,214 | 22,205 | 21,309 | 20,509 | 19,786 | 19,128 | 18,524 | 17,967 |
| P _{spez} [W/cm] | 0,000 | 0,613 | 1,202 | 1,771 | 2,322 | 2,857 | 5,355 | 7,650 | 9,723 | 11,626 | 13,388 | 15,032 | 16,575 | 18,026 | 19,397 | 20,695 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 17,449 | 16,966 | 16,512 | 16,339 | 16,086 | 15,683 | 15,301 | 14,938 | 14,592 | 14,262 | 13,644 | 13,074 | 12,545 | 12,052 | 11,590 | 11,155 |
| P _{spez} [W/cm] | 21,925 | 23,095 | 24,207 | 24,636 | 25,266 | 26,275 | 27,237 | 28,156 | 29,032 | 29,869 | 31,431 | 32,856 | 34,154 | 35,335 | 36,408 | 37,378 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | - | - | - | - | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 10,744 | 10,356 | 9,986 | 9,63 | - | - | - | - | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 38,252 | 39,037 | 39,736 | 40,354 | - | - | - | - | - | - | - | - | - | - | - | - |

Flexibility

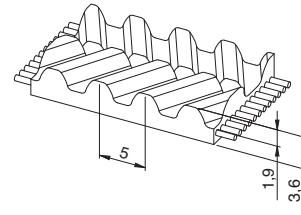
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 32 | 140 mm | 32 | 250 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 1600 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- **Self tracking no need of pulley flanges**
- Metric pitch 5 mm
- **Extremely reduced noise generation**
- The special profile allows most compact drive



STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,8 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 12,5 | 25 |
|----------------------------|------|------|
| Allowable tensile load [N] | 1380 | 2760 |
| Weight [kg/m] | 0,06 | 0,12 |

Other widths are available on request

Tooth shear strength

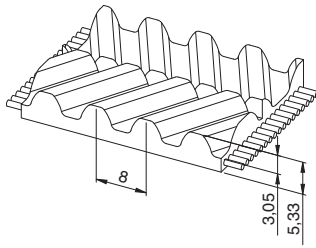
| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 3,008 | 2,964 | 2,924 | 2,888 | 2,856 | 2,826 | 2,716 | 2,616 | 2,555 | 2,492 | 2,432 | 2,376 | 2,325 | 2,277 | 2,232 | 2,190 |
| P _{spez} [W/cm] | 0,000 | 0,062 | 0,122 | 0,182 | 0,240 | 0,296 | 0,570 | 0,823 | 1,068 | 1,304 | 1,527 | 1,745 | 1,944 | 2,149 | 2,335 | 2,523 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 2,151 | 2,114 | 2,079 | 2,066 | 2,046 | 2,015 | 1,985 | 1,956 | 1,929 | 1,903 | 1,854 | 1,808 | 1,766 | 1,726 | 1,689 | 1,654 |
| P _{spez} [W/cm] | 2,702 | 2,872 | 3,049 | 3,121 | 3,220 | 3,368 | 3,525 | 3,695 | 3,840 | 3,979 | 4,262 | 4,549 | 4,819 | 5,073 | 5,306 | 5,542 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 1,621 | 1,589 | 1,559 | 1,530 | 1,464 | 1,404 | 1,349 | 1,299 | 1,252 | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 5,768 | 5,994 | 6,208 | 6,409 | 6,880 | 7,330 | 7,775 | 8,168 | 8,508 | - | - | - | - | - | - | - |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | Z _{min} | idler d _{min} | Z _{min} | idler d _{min} |
| STANDARD | 16 | 30 mm | 25 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 25 mm | ≥ 900 mm | ≥ 900 mm |



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- **Self tracking no need of pulley flanges**
- Metric pitch 8 mm
- **Extremely reduced noise generation**
- The special profile allows most compact drive

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,8$ [mm]

THICKNESS TOLERANCE: $\pm 0,3$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 16 | 25 | 32 | 50 |
|----------------------------|-------|-------|------|------|
| Allowable tensile load [N] | 2695 | 4165 | 5390 | 8330 |
| Weight [kg/m] | 0,085 | 0,145 | 0,18 | 0,30 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 10,823 | 10,668 | 10,519 | 10,376 | 10,239 | 10,107 | 9,521 | 9,042 | 8,649 | 8,343 | 8,067 | 7,820 | 7,596 | 7,392 | 7,204 | 7,030 |
| P _{spez} [W/cm] | 0,000 | 0,223 | 0,441 | 0,652 | 0,858 | 1,058 | 1,994 | 2,840 | 3,623 | 4,368 | 5,068 | 5,732 | 6,363 | 6,966 | 7,543 | 8,098 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2880 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 6,869 | 6,719 | 6,577 | 6,523 | 6,444 | 6,318 | 6,199 | 6,086 | 5,977 | 5,874 | 5,681 | 5,502 | 5,337 | 5,182 | 5,037 | 4,901 |
| P _{spez} [W/cm] | 8,631 | 9,146 | 9,642 | 9,836 | 10,122 | 10,585 | 11,035 | 11,470 | 11,892 | 12,302 | 13,087 | 13,828 | 14,529 | 15,450 | 15,824 | 16,422 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 4,772 | 4,650 | 4,535 | 4,424 | 4,169 | 3,940 | 3,731 | 3,539 | 3,362 | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 16,991 | 17,531 | 18,044 | 18,531 | 19,647 | 20,627 | 21,486 | 22,234 | 22,880 | - | - | - | - | - | - | - |

Flexibility

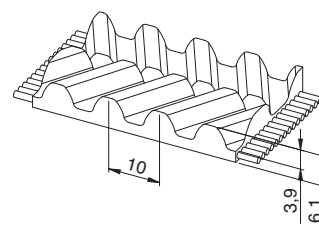
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 20 | 50 mm | 30 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 50 mm | ≥ 900 mm | ≥ 900 mm |

BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- **Self tracking no need of pulley flanges**
- Metric pitch 10 mm
- **Extremely reduced noise generation**
- The special profile allows most compact drive



STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,8 [mm]
THICKNESS TOLERANCE: ±0,3 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 25 | 32 | 50 |
|----------------------------|------|------|-------|
| Allowable tensile load [N] | 5810 | 7920 | 12140 |
| Weight [kg/m] | 0,18 | 0,23 | 0,37 |

Other widths are available on request

Tooth shear strength

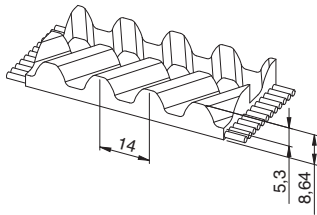
| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 14,881 | 14,647 | 14,424 | 14,210 | 14,005 | 13,809 | 12,949 | 12,259 | 11,705 | 11,263 | 10,890 | 10,556 | 10,254 | 9,979 | 9,725 | 9,491 |
| P _{spez} [W/cm] | 0,000 | 0,307 | 0,604 | 0,893 | 1,173 | 1,446 | 2,712 | 3,851 | 4,903 | 5,897 | 6,842 | 7,738 | 8,590 | 9,404 | 10,184 | 10,932 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 9,273 | 9,070 | 8,879 | 8,806 | 8,699 | 8,530 | 8,369 | 8,215 | 8,070 | 7,930 | 7,669 | 7,428 | 7,205 | 6,996 | 6,800 | 6,616 |
| P _{spez} [W/cm] | 11,653 | 12,347 | 13,017 | 13,278 | 13,664 | 14,290 | 14,897 | 15,485 | 16,055 | 16,608 | 17,667 | 18,668 | 19,615 | 20,512 | 21,363 | 22,170 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 6,443 | 6,278 | 6,122 | 5,973 | 5,629 | 5,319 | 5,036 | 4,778 | 4,540 | 4,320 | 4,110 | 3,910 | 3,730 | 3,560 | 3,390 | 3,230 |
| P _{spez} [W/cm] | 22,937 | 23,666 | 24,359 | 25,017 | 26,523 | 27,847 | 29,006 | 30,016 | 30,890 | 31,630 | 32,260 | 32,780 | 33,190 | 33,510 | 33,740 | 33,870 |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 25 | 80 mm | 25 | 150 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 50 mm | ≥ 900 mm | ≥ 900 mm |



BELT CHARACTERISTICS

- Truly endless polyurethane timing belt with helical offset tooth, high tensile load steel cords and high torque capacity
- **Self tracking no need of pulley flanges**
- Metric pitch 14 mm
- **Extremely reduced noise generation**
- The special profile allows most compact drive

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,2$ [mm]

THICKNESS TOLERANCE: $\pm 0,4$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 35 | 52,5 | 70 | 105 |
|----------------------------|-------|-------|-------|-------|
| Allowable tensile load [N] | 13090 | 18700 | 26180 | 39270 |
| Weight [kg/m] | 0,4 | 0,6 | 0,8 | 1,2 |

Other widths are available on request

Tooth shear strength

| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| M _{spez} [Ncm/cm] | 35,651 | 34,960 | 34,330 | 33,756 | 33,232 | 32,756 | 30,618 | 28,937 | 27,434 | 26,123 | 24,971 | 23,948 | 23,028 | 22,193 | 21,429 | 20,725 |
| P _{spez} [W/cm] | 0,000 | 0,733 | 1,439 | 2,123 | 2,786 | 3,430 | 6,441 | 9,090 | 11,491 | 13,677 | 15,689 | 17,553 | 19,290 | 20,915 | 22,439 | 23,872 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 20,072 | 19,464 | 18,894 | 18,676 | 18,358 | 17,852 | 17,373 | 16,918 | 16,485 | 16,072 | 15,299 | 14,586 | 13,925 | 13,310 | 12,733 | 12,191 |
| P _{spez} [W/cm] | 25,222 | 26,495 | 27,698 | 28,160 | 28,834 | 29,909 | 30,926 | 31,888 | 32,798 | 33,659 | 35,243 | 36,656 | 37,912 | 39,023 | 39,999 | 40,849 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | - | - | - | - | - | - | - | - | - | - | - | - |
| M _{spez} [Ncm/cm] | 11,679 | 11,195 | 10,735 | 10,297 | - | - | - | - | - | - | - | - | - | - | - | - |
| P _{spez} [W/cm] | 41,581 | 42,201 | 42,715 | 43,129 | - | - | - | - | - | - | - | - | - | - | - | - |

Flexibility

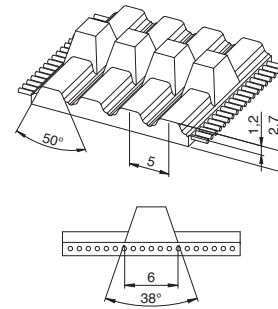
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 32 | 140 mm | 32 | 200 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 105 mm | ≥ 900 mm | ≥ 900 mm |

BELT CHARACTERISTICS

- Polyurethane self tracking timing belt with steel tension cords
- Tooth profile according to ISO 17396
- Profile AT5 with central guide - K6 x 4 mm
- Central guide height 4,0 mm
- Allow to use pulleys without flanges
- The central guide is notched in order to maximize belt flexibility
- Ideal for conveying applications where a side load is generated by loading/unloading transferring a product
- **Max length 2500 mm**



STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,5 [mm]
 THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 25 | 32 | 50 |
|----------------------------|------|------|------|
| Allowable tensile load [N] | 2760 | 3565 | 5635 |
| Weight [kg/m] | 0,08 | 0,11 | 0,17 |

Other widths are available on request

Tooth shear strength

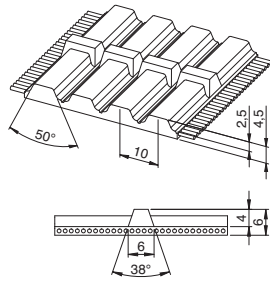
| | | | | | | | | | | | | | | | | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 2,897 | 2,855 | 2,817 | 2,783 | 2,753 | 2,725 | 2,620 | 2,540 | 2,458 | 2,383 | 2,317 | 2,258 | 2,204 | 2,153 | 2,108 | 2,066 |
| P _{spez} [W/cm] | 0,000 | 0,060 | 0,118 | 0,175 | 0,231 | 0,285 | 0,549 | 0,798 | 1,030 | 1,248 | 1,456 | 1,655 | 1,846 | 2,029 | 2,207 | 2,379 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 2,027 | 1,990 | 1,955 | 1,942 | 1,923 | 1,892 | 1,863 | 1,836 | 1,809 | 1,784 | 1,736 | 1,693 | 1,653 | 1,615 | 1,580 | 1,546 |
| P _{spez} [W/cm] | 2,547 | 2,709 | 2,866 | 2,929 | 3,020 | 3,170 | 3,316 | 3,460 | 3,599 | 3,736 | 4,000 | 4,256 | 4,500 | 4,734 | 4,962 | 5,181 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 1,514 | 1,485 | 1,456 | 1,429 | 1,367 | 1,311 | 1,260 | 1,213 | 1,169 | 1,128 | 1,091 | 1,055 | 1,023 | 0,991 | 0,961 | 0,933 |
| P _{spez} [W/cm] | 5,391 | 5,598 | 5,795 | 5,986 | 6,442 | 6,862 | 7,255 | 7,619 | 7,957 | 8,271 | 8,568 | 8,839 | 9,101 | 9,337 | 9,555 | 9,766 |

Flexibility

| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 25 | 30 mm | 25 | 60 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|----------|
| | Standard | PAZ |
| 50 mm | ≥ 800 mm | ≥ 900 mm |



BELT CHARACTERISTICS

- Polyurethane self tracking timing belt with steel tension cords
- Profile AT10 with central guide
- Central guide height 4 mm
- Allows to use pulleys without flanges
- The central guide is notched in order to maximize belt flexibility
- Ideal for conveying applications where a side load is generated by loading/unloading or transferring a product

STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]

THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 32 | 50 | 75 |
|----------------------------|------|------|-------|
| Allowable tensile load [N] | 5390 | 8330 | 12740 |
| Weight [kg/m] | 0,27 | 0,36 | 0,54 |

Other widths are available on request

Tooth shear strength

| | | | | | | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| rpm [min ⁻¹] | 0 | 20 | 40 | 60 | 80 | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 |
| M _{spez} [Ncm/cm] | 12,048 | 11,871 | 11,706 | 11,55 | 11,403 | 11,265 | 10,684 | 10,215 | 9,793 | 9,424 | 9,097 | 8,808 | 8,547 | 8,309 | 8,093 | 7,893 |
| P _{spez} [W/cm] | 0,000 | 0,249 | 0,490 | 0,726 | 0,955 | 1,180 | 2,238 | 3,209 | 4,102 | 4,934 | 5,716 | 6,456 | 7,159 | 7,831 | 8,474 | 9,091 |
| rpm [min ⁻¹] | 1200 | 1300 | 1400 | 1440 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3200 |
| M _{spez} [Ncm/cm] | 7,708 | 7,534 | 7,372 | 7,310 | 7,219 | 7,076 | 6,939 | 6,810 | 6,688 | 6,570 | 6,349 | 6,147 | 5,959 | 5,782 | 5,618 | 5,464 |
| P _{spez} [W/cm] | 9,685 | 10,256 | 10,807 | 11,022 | 11,339 | 11,855 | 12,352 | 12,836 | 13,305 | 13,759 | 14,625 | 15,447 | 16,223 | 16,953 | 17,649 | 18,308 |
| rpm [min ⁻¹] | 3400 | 3600 | 3800 | 4000 | 4500 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500 | 10000 |
| M _{spez} [Ncm/cm] | 5,317 | 5,180 | 5,048 | 4,924 | 4,636 | 4,377 | 4,140 | 3,923 | 3,724 | 3,538 | 3,365 | 3,202 | 3,048 | 2,903 | 2,766 | 2,636 |
| P _{spez} [W/cm] | 18,931 | 19,529 | 20,088 | 20,625 | 21,846 | 22,915 | 23,841 | 24,648 | 25,348 | 25,933 | 26,423 | 26,825 | 27,127 | 27,358 | 27,516 | 27,598 |

Flexibility

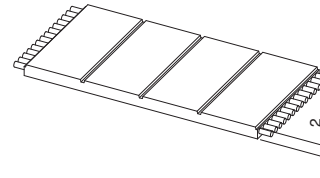
| Minimum pulley number of teeth and minimum idler diameter | Drive without reverse bending | | Drive with reverse bending | |
|---|-------------------------------|------------------------|----------------------------|------------------------|
| | z _{min} | idler d _{min} | z _{min} | idler d _{min} |
| STANDARD | 20 | 50 mm | 25 | 120 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 75 mm | ≥ 1600 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Polyurethane flat belt with steel tension cords
- It is mainly used in drive applications where there is no need for synchronization
- Allows the use of small diameter pulleys



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 0,5$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 25 | 32 | 50 | 75 | 100 |
|----------------------------|------|------|------|-------|-------|
| Allowable tensile load [N] | 4040 | 4850 | 8090 | 12400 | 16440 |
| Weight [kg/m] | 0,07 | 0,10 | 0,16 | 0,24 | 0,30 |

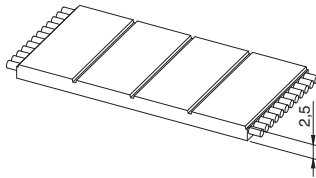
Other widths are available on request

Flexibility

| Minimum pulley diameter | Drive without reverse bending | Drive with reverse bending |
|-------------------------|-------------------------------|----------------------------|
| | idler d_{min} | idler d_{min} |
| STANDARD | 50 mm | 100 mm |

Min. available length

| Max width | Execution | |
|-----------|----------------|----------------|
| | Standard | PAZ |
| 100 mm | ≥ 1600 mm | ≥ 1800 mm |


BELT CHARACTERISTICS

- Polyurethane flat belt with steel tension cords
- It is mainly used in drive applications where there is no need for synchronization
- Allows the use of small diameter pulleys

STANDARD TOLERANCES

WIDTH TOLERANCE: ±0,8 [mm]

THICKNESS TOLERANCE: ±0,2 [mm]

TECHNICAL DATA
Standard steel cord

| Belt width b [mm] | 20 | 25 | 50 | 75 | 100 |
|----------------------------|------|------|-------|-------|-------|
| Allowable tensile load [N] | 4800 | 5760 | 11520 | 17280 | 23040 |
| Weight [kg/m] | 0,08 | 0,09 | 0,18 | 0,27 | 0,36 |

Other widths are available on request

Flexibility

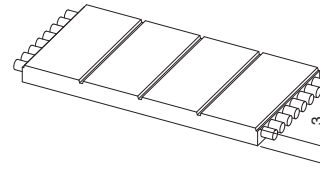
| Minimum pulley diameter | Drive without reverse bending | Drive with reverse bending |
|-------------------------|-------------------------------|----------------------------|
| | idler d_{min} | idler d_{min} |
| STANDARD | 80 mm | 150 mm |

Min. available length

| Max width | Execution | |
|-----------|-----------|-----------|
| | Standard | PAZ |
| 100 mm | ≥ 1600 mm | ≥ 1800 mm |

BELT CHARACTERISTICS

- Polyurethane flat belt with steel tension cords
- It is mainly used in drive applications where there is no need for synchronization
- Allows the use of small diameter pulleys



STANDARD TOLERANCES

WIDTH TOLERANCE: $\pm 1,0$ [mm]
THICKNESS TOLERANCE: $\pm 0,2$ [mm]

TECHNICAL DATA

Standard steel cord

| Belt width b [mm] | 25 | 30 | 60 | 100 |
|----------------------------|------|-------|-------|-------|
| Allowable tensile load [N] | 9350 | 11220 | 22440 | 37400 |
| Weight [kg/m] | 0,20 | 0,25 | 0,50 | 1,00 |

Other widths are available on request

Flexibility

| Minimum pulley diameter | Drive without reverse bending | Drive with reverse bending |
|-------------------------|-------------------------------|----------------------------|
| | idler d_{min} | idler d_{min} |
| STANDARD | 120 mm | 180 mm |

Min. available length

| Max width | Execution | |
|-----------|----------------|----------------|
| | Standard | PAZ |
| 100 mm | ≥ 1600 mm | ≥ 1800 mm |