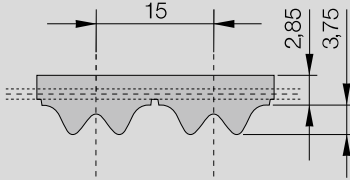


# ATP high performance Timing Belts

## ATP 15



CONTI® SYNCHROFLEX Timing Belt (SFX) ATP 15

High performance ATP profile with metric pitch and optimised meshing of the double engagement toothform.

**Available versions:**

- single-sided
- with “E” tension member for a better flexibility
- with reinforced tension member design
- polyurethane special materials upon request (Standard: 93ShA, colour: red)
- antistatic, coloured, mechanical reworked

| Type / Length*<br>GEN III | Number<br>of teeth | Type / Length*<br>GEN III | Number<br>of teeth |
|---------------------------|--------------------|---------------------------|--------------------|
| ATP 15 / 1125             | 75                 | ATP 15 / 1260             | 84                 |
| ATP 15 / 1185             | 79                 | ATP 15 / 1560             | 104                |

Preferred belt width\* in mm:  
25, 32, 50, 75, 100, 150

\* Other dimensions upon request.

**Order example**

CONTI® SYNCHROFLEX Timing Belt 32 ATP15/1260

Belt width in mm \_\_\_\_\_  
 Type/Pitch \_\_\_\_\_  
 Belt length in mm \_\_\_\_\_

# ATP 15 Technical data

## 1. Tooth shear strength (specific belt tooth strength)

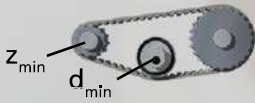

| R.p.m.<br>n [min <sup>-1</sup> ] | F <sub>Uspec</sub><br>[N/cm] | M <sub>spec</sub><br>[Ncm/cm] | P <sub>spec</sub><br>[W/cm] | R.p.m.<br>n [min <sup>-1</sup> ] | F <sub>Uspec</sub><br>[N/cm] | M <sub>spec</sub><br>[Ncm/cm] | P <sub>spec</sub><br>[W/cm] |
|----------------------------------|------------------------------|-------------------------------|-----------------------------|----------------------------------|------------------------------|-------------------------------|-----------------------------|
| 0                                | 143,325                      | 34,216                        | 0,000                       | 2000                             | 71,980                       | 17,184                        | 35,990                      |
| 20                               | 140,945                      | 33,648                        | 0,705                       | 2200                             | 69,141                       | 16,506                        | 38,027                      |
| 40                               | 138,722                      | 33,117                        | 1,387                       | 2400                             | 66,523                       | 15,881                        | 39,914                      |
| 60                               | 136,637                      | 32,620                        | 2,050                       | 2600                             | 64,094                       | 15,301                        | 41,661                      |
| 80                               | 134,674                      | 32,151                        | 2,693                       | 2800                             | 61,828                       | 14,760                        | 43,280                      |
| 100                              | 132,818                      | 31,708                        | 3,320                       | 3000                             | 59,706                       | 14,254                        | 44,779                      |
| 150                              | 128,584                      | 30,697                        | 4,822                       | 3200                             | 57,709                       | 13,777                        | 46,167                      |
| 200                              | 124,832                      | 29,799                        | 6,241                       | 3400                             | 55,824                       | 13,327                        | 47,451                      |
| 300                              | 118,367                      | 28,258                        | 8,877                       | 3600                             | 54,040                       | 12,901                        | 48,636                      |
| 400                              | 112,952                      | 26,965                        | 11,295                      | 3800                             | 52,345                       | 12,496                        | 49,727                      |
| 500                              | 108,288                      | 25,852                        | 13,536                      | 4000                             | 50,731                       | 12,111                        | 50,731                      |
| 600                              | 104,193                      | 24,874                        | 15,629                      | 4500                             | 47,006                       | 11,222                        | 52,881                      |
| 700                              | 100,542                      | 24,003                        | 17,595                      | 5000                             | 43,652                       | 10,421                        | 54,565                      |
| 800                              | 97,249                       | 23,216                        | 19,450                      | 5500                             | 40,602                       | 9,693                         | 55,828                      |
| 900                              | 94,249                       | 22,500                        | 21,206                      | 6000                             | 37,806                       | 9,026                         | 56,709                      |
| 1000                             | 91,495                       | 21,843                        | 22,874                      | 6500                             | 35,225                       | 8,409                         | 57,240                      |
| 1100                             | 88,949                       | 21,235                        | 24,461                      | 7000                             | 32,827                       | 7,837                         | 57,447                      |
| 1200                             | 86,583                       | 20,670                        | 25,975                      | 7500                             | 30,589                       | 7,303                         | 57,354                      |
| 1300                             | 84,372                       | 20,142                        | 27,421                      | 8000                             | 28,490                       | 6,802                         | 56,980                      |
| 1400                             | 82,297                       | 19,647                        | 28,804                      | 8500                             | 26,515                       | 6,330                         | 56,344                      |
| 1500                             | 80,343                       | 19,180                        | 30,128                      | 9000                             | 24,649                       | 5,884                         | 55,460                      |
| 1600                             | 78,495                       | 18,739                        | 31,398                      | 9500                             | 22,881                       | 5,462                         | 54,342                      |
| 1700                             | 76,745                       | 18,321                        | 32,616                      | 10000                            | 21,201                       | 5,061                         | 53,003                      |
| 1800                             | 75,080                       | 17,924                        | 33,786                      |                                  |                              |                               |                             |
| 1900                             | 73,494                       | 17,545                        | 34,910                      |                                  |                              |                               |                             |

Rotational speeds over 10000 rpm and/or belt speeds over 50 m/s need special drive designs. Please ask for our advice.

## 2. Tension member strength (permitted tensile force of the belt F<sub>zul</sub>), Belt weight

| Belt width                               | b      | [mm]   | 25    | 32    | 50    | 75    | 100   | 150   |
|--|--------|--------|-------|-------|-------|-------|-------|-------|
| Tension member strength F <sub>zul</sub> |        | [N]    | 4950  | 6750  | 11250 | 17550 | 23850 | 36450 |
| Belt weight                              | ATP 15 | [kg/m] | 0,200 | 0,256 | 0,400 | 0,600 | 0,800 | 1,200 |

## 3. Flexibility (Minimum numbers of teeth, minimum diameter)

|   |                       |     |  |                                  |
|---|-----------------------|-----|--|----------------------------------|
| Timing pulley   | z <sub>min</sub>      | 20  |  | Drive type without contraflexure |
| Tension roller (smooth),<br>running on teeth                | d <sub>min</sub> [mm] | 100 |  |                                  |
| Timing pulley   | z <sub>min</sub>      | 30  |  | Drive type with contraflexure    |
| Tension roller (smooth),<br>running on the back of the belt | d <sub>min</sub> [mm] | 60  |  |                                  |