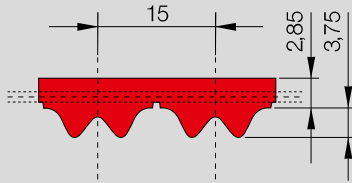


# ATP high performance Timing Belts

## ATP 15 GEN III



CONTI® SYNCHROFLEX Timing Belt (SFX) ATP 15 GEN III

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

### Standard version

- single-sided
- high performance polyurethane in red colour
- steel cord tension members with high density
- steel cord tension members in two-filament construction

| 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 GEN III

Belt width in mm \_\_\_\_\_  
 Type/Pitch \_\_\_\_\_  
 Belt length in mm \_\_\_\_\_  
 Specification Generation III \_\_\_\_\_

# ATP 15 GEN III 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] |
|----------------------------------|------------------------------|-------------------------------|-----------------------------|
| 0                                | 157,672                      | 37,641                        | 0,000                       |
| 20                               | 155,054                      | 37,016                        | 0,775                       |
| 40                               | 152,609                      | 36,433                        | 1,526                       |
| 60                               | 150,315                      | 35,885                        | 2,255                       |
| 80                               | 148,155                      | 35,369                        | 2,963                       |
| 100                              | 146,114                      | 34,882                        | 3,653                       |
| 150                              | 141,455                      | 33,770                        | 5,305                       |
| 200                              | 137,318                      | 32,782                        | 6,866                       |
| 300                              | 130,215                      | 31,087                        | 9,766                       |
| 400                              | 124,258                      | 29,664                        | 12,426                      |
| 500                              | 119,128                      | 28,440                        | 14,891                      |
| 600                              | 114,623                      | 27,364                        | 17,193                      |
| 700                              | 110,606                      | 26,405                        | 19,356                      |
| 800                              | 106,984                      | 25,540                        | 21,397                      |
| 900                              | 103,684                      | 24,753                        | 23,329                      |
| 1000                             | 100,564                      | 24,029                        | 25,163                      |
| 1100                             | 97,853                       | 23,361                        | 26,910                      |
| 1200                             | 95,250                       | 22,739                        | 28,575                      |
| 1300                             | 92,817                       | 22,159                        | 30,166                      |
| 1400                             | 90,535                       | 21,614                        | 31,687                      |
| 1500                             | 88,385                       | 21,100                        | 33,144                      |
| 1600                             | 86,353                       | 20,615                        | 34,541                      |
| 1700                             | 84,427                       | 20,155                        | 35,881                      |
| 1800                             | 82,596                       | 19,718                        | 37,168                      |
| 1900                             | 80,851                       | 19,302                        | 38,404                      |

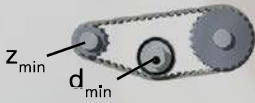

| R.p.m.<br>n [min <sup>-1</sup> ] | F <sub>Uspec</sub><br>[N/cm] | M <sub>spec</sub><br>[Ncm/cm] | P <sub>spec</sub><br>[W/cm] |
|----------------------------------|------------------------------|-------------------------------|-----------------------------|
| 2000                             | 79,185                       | 18,904                        | 39,592                      |
| 2200                             | 76,062                       | 18,158                        | 41,834                      |
| 2400                             | 73,182                       | 17,471                        | 43,909                      |
| 2600                             | 70,510                       | 16,833                        | 45,831                      |
| 2800                             | 68,018                       | 16,238                        | 47,612                      |
| 3000                             | 65,683                       | 15,681                        | 49,262                      |
| 3200                             | 63,486                       | 15,156                        | 50,789                      |
| 3400                             | 61,413                       | 14,661                        | 52,201                      |
| 3600                             | 59,449                       | 14,192                        | 53,504                      |
| 3800                             | 57,584                       | 13,747                        | 54,705                      |
| 4000                             | 55,809                       | 13,323                        | 55,809                      |
| 4500                             | 51,711                       | 12,345                        | 58,175                      |
| 5000                             | 48,022                       | 11,464                        | 60,027                      |
| 5500                             | 44,667                       | 10,663                        | 61,417                      |
| 6000                             | 41,591                       | 9,929                         | 62,386                      |
| 6500                             | 38,751                       | 9,251                         | 62,970                      |
| 7000                             | 36,113                       | 8,621                         | 63,198                      |
| 7500                             | 33,651                       | 8,034                         | 63,095                      |
| 8000                             | 31,342                       | 7,482                         | 62,684                      |
| 8500                             | 29,169                       | 6,964                         | 61,984                      |
| 9000                             | 27,116                       | 6,474                         | 61,012                      |
| 9500                             | 25,171                       | 6,009                         | 59,782                      |
| 10000                            | 23,324                       | 5,568                         | 58,309                      |

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]    | 6300  | 8550  | 13950 | 21600 | 28800 | 44100 |
| Belt weight                              | ATP 15 GEN III | [kg/m] | 0,218 | 0,279 | 0,436 | 0,654 | 0,872 | 1,308 |

## 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] | 160 |  |                                  |