



Taperlock tension bushings are the standardized, commercially available machine parts for creating non-positive shaft-to-hub connections with a pulley. The conically slotted bushing with feather key groove according to DIN 6885 serves to fasten pulleys to shafts or journals.

Taperlock tension bushings are available in different outside dimensions. A large number of bore sizes are available for each outside dimension, i.e. for the corresponding shaft diameter. The 4-digit number refers to the outside dimension, the 2-digit number indicates the bore size

| Ø Bore                         | Taperlock bushings with metric bore, groove according to DIN 6885 Part 1 |           |           |           |           |           |           |            |         |             |             |             |             |             |         |             |
|--------------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|---------|-------------|-------------|-------------|-------------|-------------|---------|-------------|
|                                | 1008   | 1108      | 1210      | 1215      | 1310      | 1610      | 1615      | 2012       | 2517    | 3020        | 3030        | 3525        | 3535        | 4040        | 4545    | 5050        |
| 10                             | 10   | 11        | 11        | 14        | 14        | 14        | 14        | 16         | 25      | 35          | 35          | 35          | 40          | 55          | 70      |             |
| 11                             | 11   | 12        | 12        | 16        | 16        | 16        | 16        | 18         | 28      | 38          | 38          | 38          | 42          | 60          | 75      |             |
| 12                             | 12   | 14        | 14        | 18        | 18        | 18        | 18        | 19         | 30      | 40          | 40          | 40          | 45          | 65          | 80      |             |
| 14                             | 14   | 16        | 16        | 19        | 19        | 19        | 19        | 20         | 32      | 42          | 42          | 42          | 48          | 70          | 85      |             |
| 16                             | 16   | 18        | 18        | 20        | 20        | 20        | 20        | 22         | 35      | 45          | 45          | 45          | 50          | 75          | 90      |             |
| 18                             | 18   | 19        | 19        | 22        | 22        | 22        | 22        | 24         | 38      | 48          | 48          | 48          | 55          | 80          | 95      |             |
| 19                             | 19   | 20        | 20        | 24        | 24        | 24        | 24        | 25         | 40      | 50          | 50          | 50          | 60          | 85          | 100     |             |
| 20                             | 20   | 22        | 22        | 25        | 25        | 25        | 25        | 28         | 42      | 55          | 55          | 55          | 65          | 90          | 105     |             |
| 22                             | 22   | 24        | 24        | 28        | 28        | 28        | 28        | 30         | 45      | 60          | 60          | 60          | 70          | 95          | 110     |             |
| 24*                            | 24   | 25        | 25        | 30        | 30        | 30        | 30        | 32         | 48      | 65          | 65          | 65          | 75          | 100         | 115     |             |
| 25*                            | 25   | 28        | 28        | 32        | 32        | 32        | 32        | 35         | 50      | 70          | 70          | 70          | 80          | 105         | 120     |             |
|                                | 28*  | 30        | 30        | 35        | 35        | 35        | 35        | 38         | 55      | 75          | 75          | 75          | 85          | 110         | 125     |             |
|                                |  | 32        | 32        |           | 38        | 38        | 38        | 40         | 60      |             | 80          | 80          | 90          |             |         |             |
|                                |  |           |           |           | 40        | 40        | 40        | 42         | 65      |             | 85          | 85          | 95          |             |         |             |
|                                |  |           |           |           | 42*       | 42*       | 42        | 45         | 70      |             | 90          | 90          | 100         |             |         |             |
|                                |  |           |           |           |           |           |           | 45         | 48      | 75          |             |             |             |             |         |             |
|                                |  |           |           |           |           |           |           | 50         | 55      |             |             |             |             |             |         |             |
|                                |  |           |           |           |           |           |           | 60         |         |             |             |             |             |             |         |             |
| Hexagon socket screw (inch)    | 1/4 x 1/2  | 1/4 x 1/2 | 3/8 x 5/8 | 3/8 x 5/8 | 3/8 x 5/8 | 3/8 x 5/8 | 3/8 x 5/8 | 7/16 x 7/8 | 1/2 x 1 | 5/8 x 1 1/4 | 5/8 x 1 1/4 | 1/2 x 1 1/2 | 1/2 x 1 1/2 | 5/8 x 1 3/4 | 3/4 x 2 | 7/8 x 2 1/4 |
| Tightening (Nm)                | 5,7  | 5,7       | 20        | 20        | 20        | 20        | 20        | 31         | 49      | 92          | 92          | 115         | 115         | 172         | 195     | 275         |
| Bushing length (mm)            | 22,3   | 22,3      | 25,4      | 38,1      | 25,4      | 25,4      | 38,1      | 31,8       | 44,5    | 50,8        | 76,2        | 63,5        | 88,9        | 101,6       | 114,3   | 127,0       |
| Weight for d <sub>2</sub> min. | 0,12   | 0,16      | 0,28      | 0,39      | 0,32      | 0,41      | 0,60      | 0,75       | 1,06    | 2,50        | 3,75        | 3,90        | 5,13        | 7,68        | 12,70   | 15,17       |

\* This bore has a flat groove.



| Ø Bore                         | Taperlock bushings with Imperial bore, groove according to British Standard BS 46 Part 1 |           |           |           |           |           |           |            |         |             |             |             |             |             |         |             |
|--------------------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|---------|-------------|-------------|-------------|-------------|-------------|---------|-------------|
|                                | 1008   | 1108      | 1210      | 1215      | 1310      | 1610      | 1615      | 2012       | 2517    | 3020        | 3030        | 3525        | 3535        | 4040        | 4545    | 5050        |
| 3/8                            | 3/8  | 1/2       | 5/8       | 1/2       | 1/2       | 1/2       | 5/8       | 3/4        | 1 1/4   | 1 1/4       | 1 1/2       | 1 1/2       | 1 3/4       | 2 1/4       | 3       |             |
| 1/2                            | 1/2  | 5/8       | 3/4       | 5/8       | 5/8       | 5/8       | 3/4       | 7/8        | 1 3/8   | 1 3/8       | 1 5/8       | 1 5/8       | 1 7/8       | 2 3/8       | 3 1/4   |             |
| 5/8                            | 5/8  | 3/4       | 7/8       | 3/4       | 3/4       | 3/4       | 7/8       | 1          | 1 1/2   | 1 1/2       | 1 3/4       | 1 3/4       | 2           | 2 1/2       | 3 1/2   |             |
| 3/4                            | 3/4  | 7/8       | 1         | 7/8       | 7/8       | 7/8       | 1         | 1 1/8      | 1 5/8   | 1 5/8       | 1 7/8       | 1 7/8       | 2 1/8       | 2 3/4       | 3 3/4   |             |
| 7/8                            | 7/8  | 1         | 1 1/8     | 1         | 1         | 1         | 1 1/8     | 1 1/4      | 1 3/4   | 1 3/4       | 2           | 2           | 2 1/4       | 2 7/8       | 4       |             |
| 1*                             | 1*   | 1 1/8     | 1 1/4     | 1 1/8     | 1 1/8     | 1 1/8     | 1 1/4     | 1 3/8      | 1 7/8   | 1 7/8       | 2 1/8       | 2 1/8       | 2 3/8       | 3           | 4 1/4   |             |
|                                | 1 1/8*   | 1 1/4     |           | 1 1/4     | 1 1/4     | 1 1/4     | 1 3/8     | 1 1/2      | 2       | 2           | 2 1/4       | 2 1/4       | 2 1/2       | 3 1/4       | 4 1/2   |             |
|                                |  |           |           | 1 3/8     | 1 3/8     | 1 3/8     | 1 1/2     | 1 5/8      | 2 1/8   | 2 1/8       | 2 3/8       | 2 3/8       | 2 5/8       | 3 3/8       | 4 3/4   |             |
|                                |  |           |           |           | 1 1/2     | 1 1/2     | 1 5/8     | 1 3/4      | 2 1/4   | 2 1/4       | 2 1/2       | 2 1/2       | 2 3/4       | 3 1/2       | 5*      |             |
|                                |  |           |           |           | 1 5/8     | 1 5/8*    | 1 3/4     | 1 7/8      | 2 3/8   | 2 3/8       | 2 5/8       | 2 5/8       | 2 7/8       | 3 3/4       |         |             |
|                                |  |           |           |           |           |           | 1 7/8     | 2          | 2 1/2   | 2 1/2       | 2 3/4       | 2 3/4       | 3           | 4           |         |             |
|                                |  |           |           |           |           |           | 2         | 2 1/8      | 2 5/8   | 2 5/8       | 2 7/8       | 2 7/8       | 3 1/8       | 4 1/4*      |         |             |
|                                |  |           |           |           |           |           | 2 1/4     | 2 3/4      | 2 3/4   | 3           | 3           | 3 1/4       | 4 1/2*      |             |         |             |
|                                |  |           |           |           |           |           | 2 3/8     | 2 7/8      | 2 7/8   | 3 1/8       | 3 1/8       | 3 3/8       |             |             |         |             |
|                                |  |           |           |           |           |           | 2 1/2     | 3          | 3       | 3 1/4       | 3 1/4       | 3 1/2       |             |             |         |             |
|                                |  |           |           |           |           |           |           |            |         | 3 3/8       | 3 3/8       | 3 3/4*      |             |             |         |             |
|                                |  |           |           |           |           |           |           |            |         | 3 1/2*      | 3 1/2*      | 4           |             |             |         |             |
| Hexagon socket screw (inch)    | 1/4 x 1/2  | 1/4 x 1/2 | 3/8 x 5/8 | 3/8 x 5/8 | 3/8 x 5/8 | 3/8 x 5/8 | 3/8 x 5/8 | 7/16 x 7/8 | 1/2 x 1 | 5/8 x 1 1/4 | 5/8 x 1 1/4 | 1/2 x 1 1/2 | 1/2 x 1 1/2 | 5/8 x 1 3/4 | 3/4 x 2 | 7/8 x 2 1/4 |
| Tightening (Nm)                | 5,7  | 5,7       | 20        | 20        | 20        | 20        | 20        | 31         | 49      | 92          | 92          | 115         | 115         | 172         | 195     | 275         |
| Bushing length (mm)            | 22,3   | 22,3      | 25,4      | 38,1      | 25,4      | 25,4      | 38,1      | 31,8       | 44,5    | 50,8        | 76,2        | 63,5        | 88,9        | 101,6       | 114,3   | 127,0       |
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