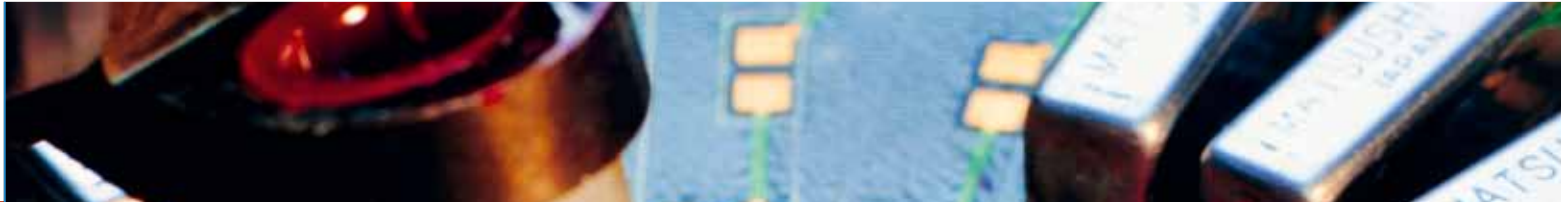
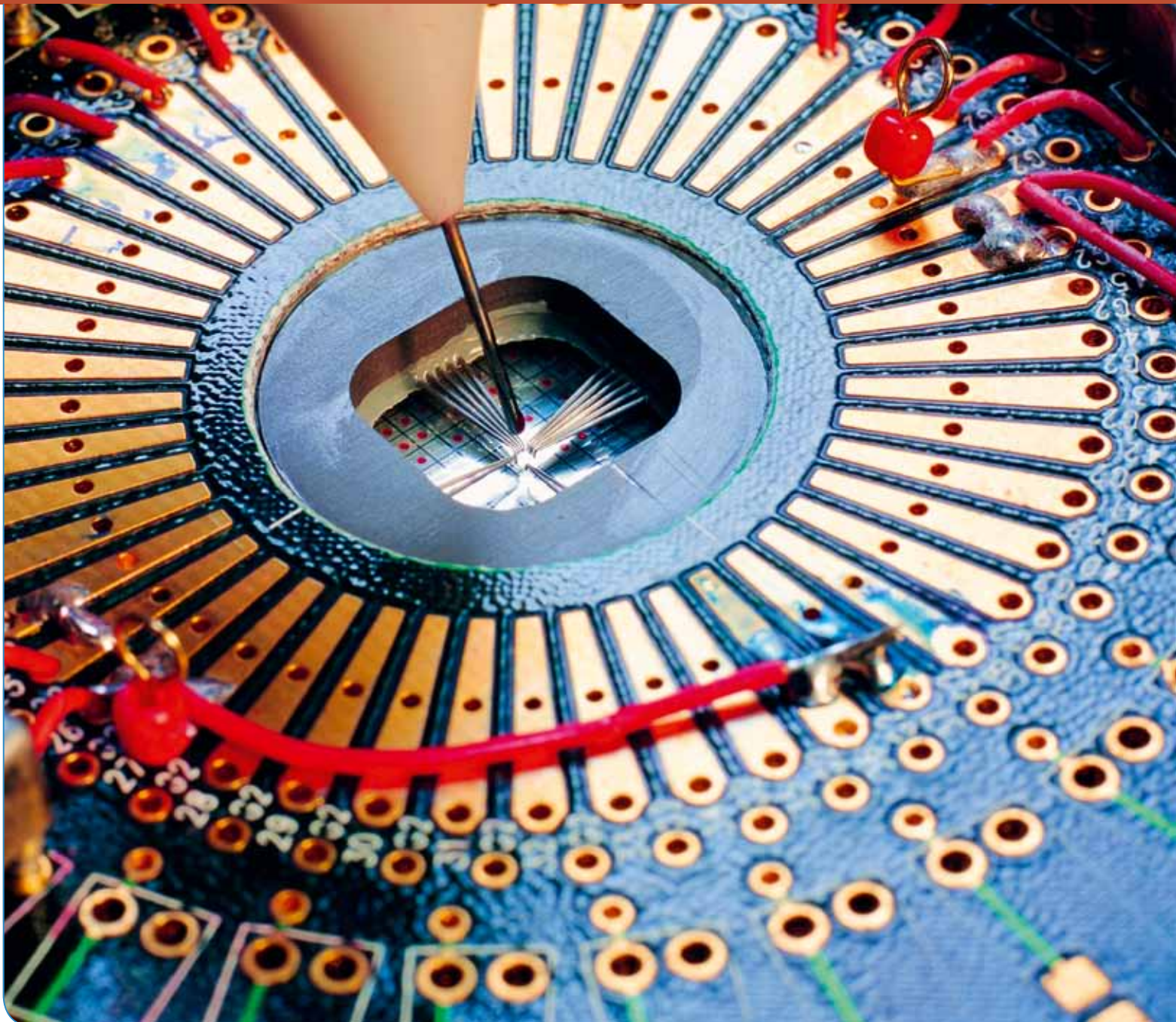
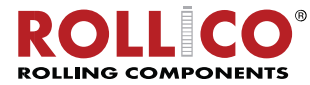


Welcome to where precision is.



Miniature Ball Screws Diameter 3 – 16 mm





Oficjalny przedstawiciel Steinmeyer w Polsce
www.rollico.com

MINIATURE BALL SCREWS 3 – 16 MM

Miniature ball screws are mainly used in Semiconductor Technology, Optics, Medical Technology and Measurement Technology markets. There are two different standard shaft styles available, style A and B, which are available in various stroke lengths. On inquiry we offer suitable support bearings as well.

In addition to the standard ball screws, Steinmeyer also offers screws and nuts in completely custom execution. All sizes are available in ground execution up to accuracy class P0. And from diameter 8 mm to 16 mm we also offer miniature rolled screws in accuracy class T7 to T10.

Standard or Custom.

Whether you select a standard item from our extensive product range, or are looking for something specifically tailored to your needs: Steinmeyer has a solution!

Our extensive list of standard screws is the right place to start collecting information. Even custom solutions may actually use the same nut as a standard screw, so nut dimensions as well as technical data are the same.

We also manufacture ball screws entirely customized: unusual nut shapes, different pitches or diameters, special materials, special coatings, etc. If that's what you are looking for, please contact us.

TECHNICAL TIP

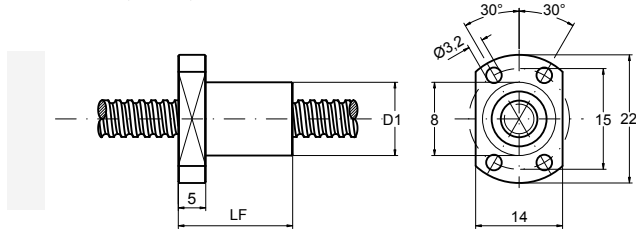
Our standard product range for miniature ball screws includes two different shaft versions, in various lengths, that can be combined with four different nut designs. You may choose from a number of different diameters and leads, and several accuracy classes. We have tried to present this variety as user-friendly as possible.

In addition to the different shaft lengths and travels, we supply ball screws with modifications such as reduced length or completely customized shafts. These non-standard shafts may be combined with one of the standard nuts shown here, or with custom nuts. We will be pleased to quote whatever you require. Just send us a drawing or sketch.

Positioning ball screws 3 - 16 mm

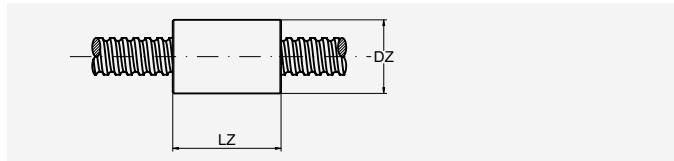
NOMINAL DIAMETER 3 mm

Ground execution with standard bearing journal P0 - P5
Series 1412, 1214, 1112



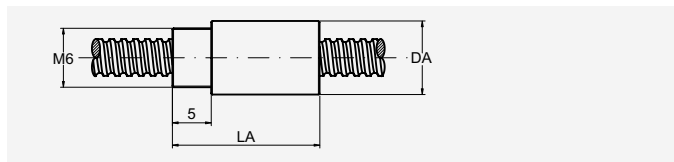
FLANGE NUT

■ **Series 1412:**
Nut with flange and standard wipers on both ends



CYLINDRICAL NUT

■ **Series 1214:**
Cylindrical nut without wipers



NUT WITH CONNECTING THREAD

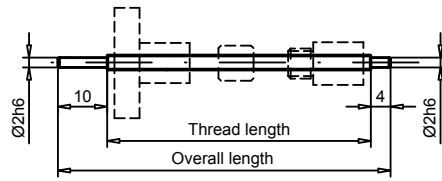
■ **Series 1112:**
Nut with connecting thread without wipers

Technical data

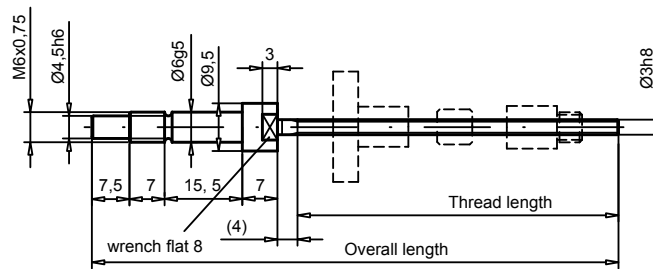
Numbering system see page 52
(Please specify the accuracy class)

| | 1412/0,5,3,76,90 | 1412/0,5,3,44,85 | 1412/0,5,3,64,105 | 1412/0,5,3,94,135 | 1412/1,3,76,90 | 1412/1,3,44,85 | 1412/1,3,64,105 | 1412/1,3,94,135 |
|--|------------------|------------------|-------------------|-------------------|----------------|----------------|-----------------|-----------------|
| Shaft style | A | B | B | B | A | B | B | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 |
| Nominal diameter d_N [mm] | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Nominal stroke [mm] | 50 | 20 | 40 | 70 | 50 | 20 | 40 | 70 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| Dynamic load capacity C_a [N] | 90 | 90 | 90 | 90 | 240 | 240 | 240 | 240 |
| Static load capacity C_{0a} [N] | 90 | 90 | 90 | 90 | 250 | 250 | 250 | 250 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Max. friction torque [Ncm] (preloaded nut) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) |
| Nut length LF / LZ / LA [mm] | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Nut diameter D1g6 / DZh6 / DA [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |

■ Shaft style A



■ Shaft style B



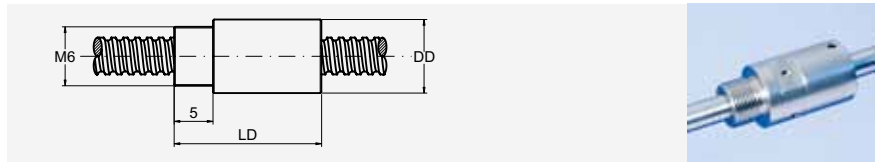
P

Nuts shown in standard orientation. Select one nut from table.

| | 1214/0,5,3,76,90 | 1214/0,5,3,44,85 | 1214/0,5,3,64,105 | 1214/0,5,3,94,135 | 1214/1,3,76,90 | 1214/1,3,44,85 | 1214/1,3,64,105 | 1214/1,3,94,135 | 1112/0,5,3,76,90 | 1112/0,5,3,44,85 | 1112/0,5,3,64,105 | 1112/0,5,3,94,135 | 1112/1,3,76,90 | 1112/1,3,44,85 | 1112/1,3,64,105 | 1112/1,3,94,135 |
|--|------------------|------------------|-------------------|-------------------|----------------|----------------|-----------------|-----------------|------------------|------------------|-------------------|-------------------|----------------|----------------|-----------------|-----------------|
| | A | B | B | B | A | B | B | B | A | B | B | B | A | B | B | B |
| | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 50 | 20 | 40 | 70 | 50 | 20 | 40 | 70 | 50 | 20 | 40 | 70 | 50 | 20 | 40 | 70 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| | 90 | 90 | 90 | 90 | 240 | 240 | 240 | 240 | 90 | 90 | 90 | 90 | 240 | 240 | 240 | 240 |
| | 90 | 90 | 90 | 90 | 250 | 250 | 250 | 250 | 90 | 90 | 90 | 90 | 250 | 250 | 250 | 250 |
| | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) | 0.3 (1) |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 |

NOMINAL DIAMETER 3 mm

Ground execution with standard bearing journal P0 - P5
Series 1510



NUT WITH CONNECTING THREAD

■ Series 1510:

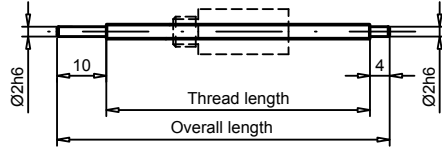
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

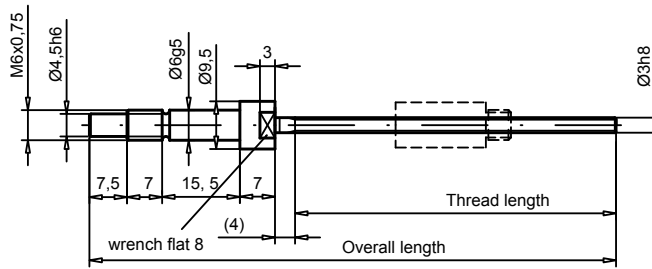
Numbering system see page 52
(Please specify the accuracy class)

| | 1510/0,5,3,76,90 | 1510/0,5,3,44,85 | 1510/0,5,3,64,105 | 1510/0,5,3,94,135 | 1510/1,3,76,90 | 1510/1,3,44,85 | 1510/1,3,64,105 | 1510/1,3,94,135 |
|-----------------------------------|------------------|------------------|-------------------|-------------------|----------------|----------------|-----------------|-----------------|
| Shaft style | A | B | B | B | A | B | B | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 |
| Nominal diameter d_N [mm] | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Nominal stroke [mm] | 50 | 20 | 40 | 70 | 50 | 20 | 40 | 70 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| Dynamic load capacity C_a [N] | 100 | 100 | 100 | 100 | 200 | 200 | 200 | 200 |
| Static load capacity C_{0a} [N] | 200 | 200 | 200 | 200 | 300 | 300 | 300 | 300 |
| Max. preload [N] | 10 | 10 | 10 | 10 | 15 | 15 | 15 | 15 |
| Max. axial load [N] | 6 | 6 | 6 | 6 | 10 | 10 | 10 | 10 |
| Friction torque T_{pr0} [Ncm] | 0.4-0.8 | 0.4-0.8 | 0.4-0.8 | 0.4-0.8 | 0.4-0.8 | 0.4-0.8 | 0.4-0.8 | 0.4-0.8 |
| Nut length LD [mm] | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Nut diameter DD [mm] | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

■ Shaft style A



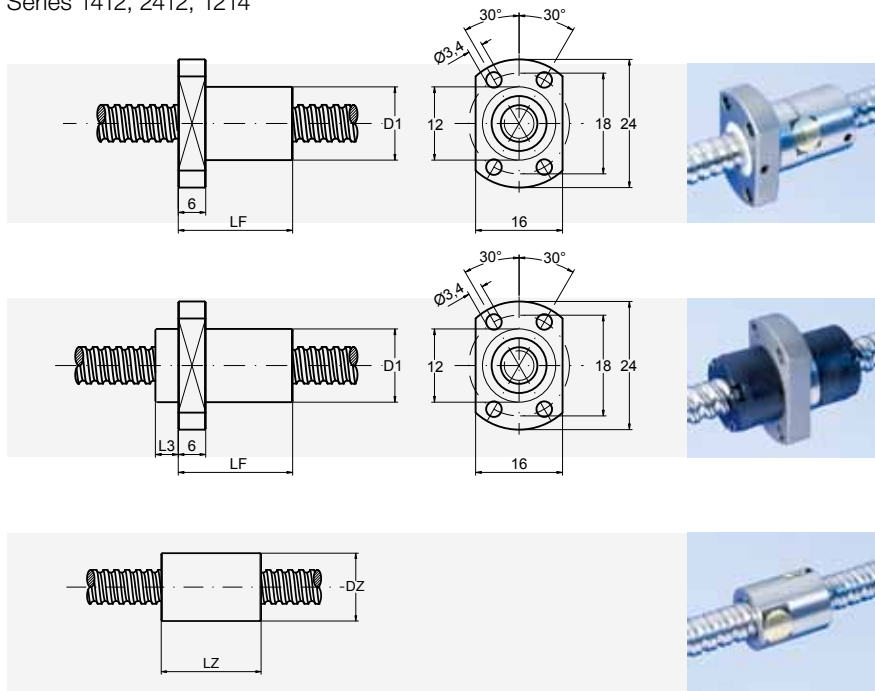
■ Shaft style B



Please follow the advice on page 24/25.

NOMINAL DIAMETER 5 mm

Ground execution with standard bearing journal P0 - P5
Series 1412, 2412, 1214



NUT WITH CONNECTING THREAD

■ **Series 1412:**
Nut with flange and standard wipers on both ends

FLANGE NUT

■ **Series 2412:**
Nut with flange and standard wipers on both ends

CYLINDRICAL NUT

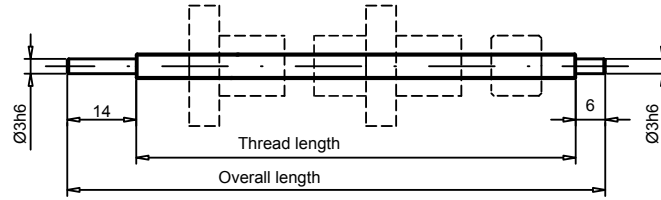
■ **Series 1214:**
Cylindrical nut without wipers

Technical data

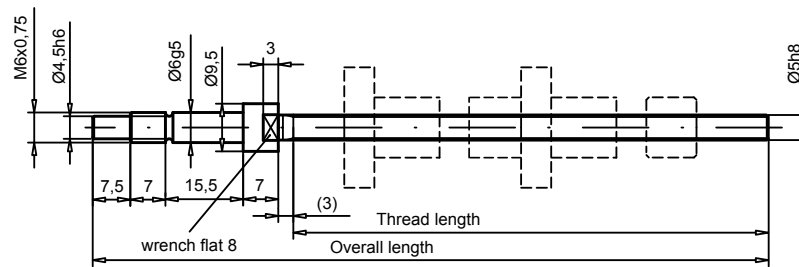
Numbering system see page 52
(Please specify the accuracy class)

| | 1412/0,5.5.90.110 | 1412/0,5.5.65.105 | 1412/0,5.5.125.165 | 1412/1.5.90.110 | 1412/1.5.65.105 | 1412/1.5.125.165 | 1412/1,5.5.90.110 | 1412/1,5.5.125.165 |
|--|-------------------|-------------------|--------------------|-----------------|-----------------|------------------|-------------------|--------------------|
| Shaft style | A | B | B | A | B | B | A | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1.5 | 1.5 |
| Nominal diameter d_N [mm] | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Nominal stroke [mm] | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 100 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1 | 1 |
| Dynamic load capacity C_a [N] | 170 | 170 | 170 | 490 | 490 | 490 | 640 | 640 |
| Static load capacity C_{0a} [N] | 240 | 240 | 240 | 740 | 740 | 740 | 860 | 860 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) |
| Nut length LF / LZ [mm] | 22 | 22 | 22 | 21 | 21 | 21 | 23 | 23 |
| Nut diameter D1g6 / DZh6 [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| L3 [mm] | - | - | - | - | - | - | - | - |

■ Shaft style A



■ Shaft style B



Nuts shown in standard orientation. Select one nut from table.

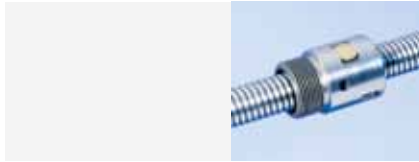
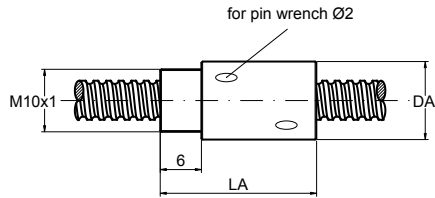
P

| | 2412/2.5.90.110 | 2412/2.5.65.105 | 2412/2.5.125.165 | 2412/3.5.90.110 | 2412/3.5.65.105 | 2412/3.5.125.165 | 1214/0.5.5.90.110 | 1214/0.5.5.65.105 | 1214/0.5.5.125.165 | 1214/1.5.90.110 | 1214/1.5.65.105 | 1214/1.5.125.165 | 1214/1.5.5.90.110 | 1214/1.5.5.65.105 | 1214/1.5.5.125.165 |
|--|-----------------|-----------------|------------------|-----------------|-----------------|------------------|-------------------|-------------------|--------------------|-----------------|-----------------|------------------|-------------------|-------------------|--------------------|
| | A | B | B | A | B | B | A | B | B | A | B | B | A | B | B |
| | 2 | 2 | 2 | 3 | 3 | 3 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 |
| | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 |
| | 990 | 990 | 990 | 790 | 790 | 790 | 170 | 170 | 170 | 490 | 490 | 490 | 640 | 640 | 640 |
| | 1490 | 1490 | 1490 | 1150 | 1150 | 1150 | 240 | 240 | 240 | 740 | 740 | 740 | 860 | 860 | 860 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) |
| | 12 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 12 | 12 | 12 | 14 | 14 | 14 |
| | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 5 | 5 | 5 | 5 | 5 | 5 | - | - | - | - | - | - | - | - | - |

Positioning ball screws 3 - 16 mm

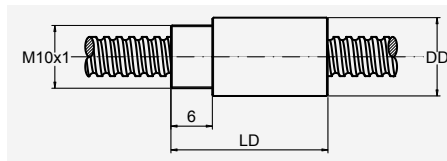
NOMINAL DIAMETER 5 mm

Ground execution with standard bearing journal P0 - P5
Series 1112, 1510



NUT WITH CONNECTING THREAD

■ **Series 1112:**
Nut with connecting thread without wipers



NUT WITH CONNECTING THREAD

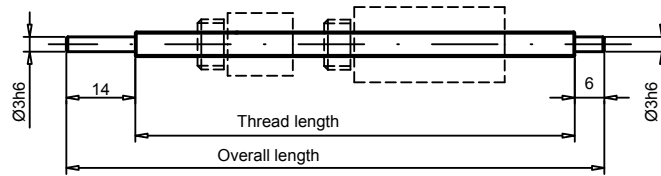
■ **Series 1510:**
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

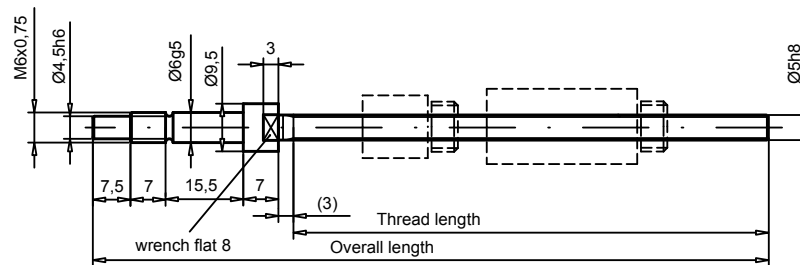
Numbering system see page 52
(Please specify the accuracy class)

| | 1112/0,5,5.90.110 | 1112/0,5,5.65.105 | 1112/0,5,5.125.165 | 1112/1,5,90.110 | 1112/1,5,65.105 | 1112/1,5,125.165 | 1112/1,5,5.90.110 | 1112/1,5,5.65.105 | 1112/1,5,5.125.165 |
|--|-------------------|-------------------|--------------------|-----------------|-----------------|------------------|-------------------|-------------------|--------------------|
| Shaft style | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 |
| Nominal diameter d_N [mm] | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Nominal stroke [mm] | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 |
| Dynamic load capacity C_a [N] | 170 | 170 | 170 | 490 | 490 | 490 | 640 | 640 | 640 |
| Static load capacity C_{0a} [N] | 240 | 240 | 240 | 740 | 740 | 740 | 860 | 860 | 860 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) | 0.4 (1.5) |
| Max. preload [N] | - | - | - | - | - | - | - | - | - |
| Max. axial load [N] | - | - | - | - | - | - | - | - | - |
| Friction torque T_{pr0} [Ncm] | - | - | - | - | - | - | - | - | - |
| Nut length LA / LD [mm] | 19 | 19 | 19 | 18 | 18 | 18 | 20 | 20 | 20 |
| Nut diameter DA / DD [mm] | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |

■ Shaft style A



■ Shaft style B



Nuts shown in standard orientation. Select one nut from table. Please follow the advice on page 24/25.

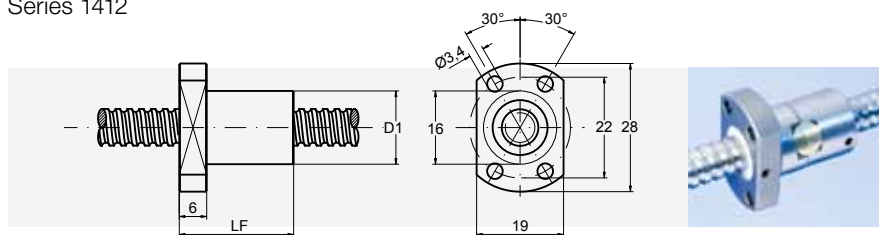
| 1510/0,5.5.90.110 | | 1510/0,5.5.65.105 | | 1510/0,5.5.125.165 | | 1510/1,5.90.110 | | 1510/1,5.65.105 | | 1510/1,5.125.165 | | 1510/1,5.5.90.110 | | 1510/1,5.5.65.105 | | 1510/1,5.5.125.165 | |
|-------------------|---------|-------------------|---------|--------------------|---------|-----------------|---------|-----------------|---------|------------------|---------|-------------------|---------|-------------------|---------|--------------------|---------|
| A | B | B | A | B | B | A | B | B | A | B | B | A | B | B | A | B | B |
| 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 | 60 | 40 | 100 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 |
| 100 | 100 | 100 | 400 | 400 | 400 | 500 | 500 | 500 | 100 | 100 | 100 | 400 | 400 | 400 | 500 | 500 | 500 |
| 100 | 100 | 100 | 500 | 500 | 500 | 600 | 600 | 600 | 100 | 100 | 100 | 500 | 500 | 500 | 600 | 600 | 600 |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10 | 10 | 10 | 20 | 20 | 20 | 20 | 20 | 20 | 10 | 10 | 10 | 20 | 20 | 20 | 20 | 20 | 20 |
| 6 | 6 | 6 | 15 | 15 | 15 | 15 | 15 | 15 | 6 | 6 | 6 | 15 | 15 | 15 | 15 | 15 | 15 |
| 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 | 0.5-1.0 |
| 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |



Positioning ball screws 3 - 16 mm

NOMINAL DIAMETER 8 mm

Ground execution with standard bearing journal P0 - P5
Series 1412



FLANGE NUT

■ Series 1412:

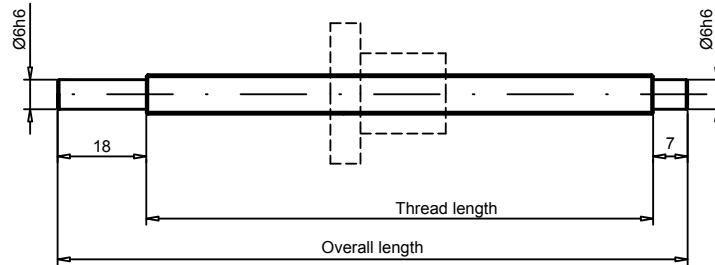
Nut with flange and standard wipers on both ends

Technical data

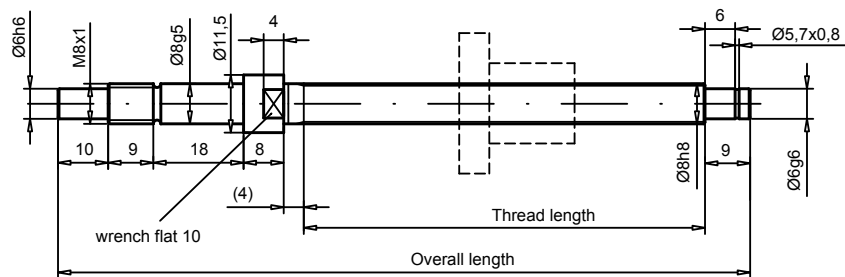
Numbering system see page 52
(Please specify the accuracy class)

| | 1412/0,5,8,145,170 | 1412/0,5,8,245,270 | 1412/0,5,8,80,138 | 1412/0,5,8,190,248 | 1412/1,8,145,170 | 1412/1,8,245,270 | 1412/1,8,80,138 | 1412/1,8,190,248 | 1412/1,5,8,110,168 | 1412/1,5,8,190,248 | 1412/2,8,145,170 | 1412,2,8,245,270 |
|--|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|--------------------|--------------------|------------------|------------------|
| Shaft style | A | A | B | B | A | A | B | B | B | B | A | A |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 2 | 2 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 70 | 150 | 100 | 200 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 400 | 400 | 400 | 400 | 900 | 900 | 900 | 900 | 1200 | 1200 | 2000 | 2000 |
| Static load capacity C_{0a} [N] | 500 | 500 | 500 | 500 | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 2100 | 2100 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LF [mm] | 22 | 22 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 28 | 28 |
| Nut diameter D1g6 [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

■ Shaft style A



■ Shaft style B



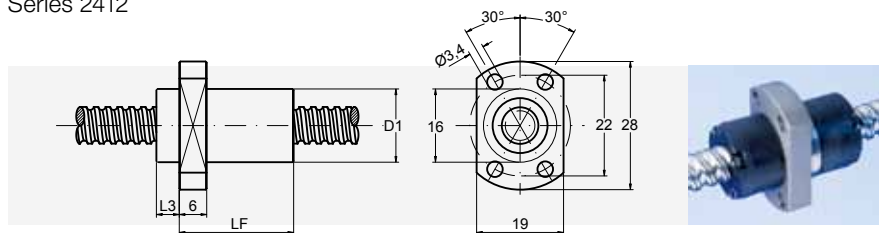
P

| | 1412/2.8.80.138 | 1412/2.8.190.248 | 1412/2.5.8.145.170 | 1412/2.5.8.245.270 | 1412/2.5.8.80.138 | 1412/2.5.8.190.248 | 1412/3.8.145.170 | 1412/3.8.245.270 | 1412/3.8.80.138 | 1412/3.8.190.248 | 1412/4.8.145.170 | 1412/4.8.245.270 | 1412/4.8.80.138 | 1412/4.8.190.248 |
|--|-----------------|------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| | B | B | A | A | B | B | A | A | B | B | A | A | B | B |
| | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| | 28 | 28 | 30 | 30 | 30 | 30 | 27 | 27 | 27 | 27 | 31 | 31 | 31 | 31 |
| | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

Positioning ball screws 3 - 16 mm

NOMINAL DIAMETER 8 mm

Ground execution with standard bearing journal P0 - P5
Series 2412



FLANGE NUT

■ Series 2412:

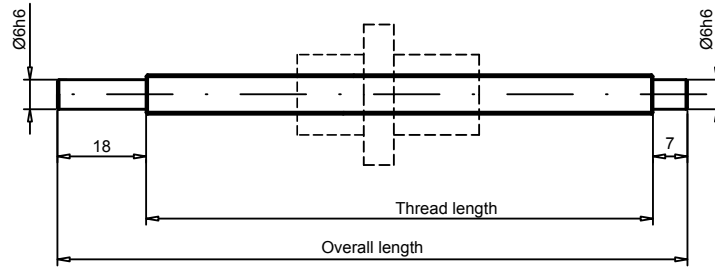
Nut with flange and standard wipers on both ends

Technical data

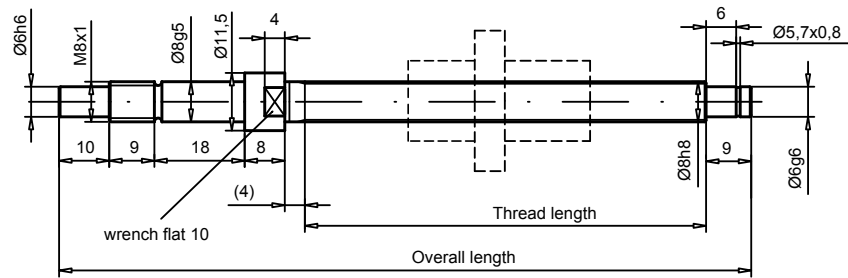
Numbering system see page 52
(Please specify the accuracy class)

| | 2412/2.8.145.170 | 2412/2.8.245.270 | 2412/2.8.80.138 | 2412/2.8.190.248 | 2412/4.8.145.170 | 2412/4.8.245.270 | 2412/4.8.80.138 | 2412/4.8.190.248 | 2412/5.8.145.170 | 2412/5.8.245.270 | 2412/5.8.80.138 | 2412/5.8.190.248 |
|--|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 3100 | 3100 | 3100 | 3100 | 3000 | 3000 | 3000 | 3000 | 1900 | 1900 | 1900 | 1900 |
| Static load capacity C_{0a} [N] | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 2100 | 2100 | 2100 | 2100 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LF [mm] | 12 | 12 | 12 | 12 | 21 | 21 | 21 | 21 | 16 | 16 | 16 | 16 |
| Nut diameter D1g6 [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Länge Stirndeckel L3 [mm] | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

■ Shaft style A



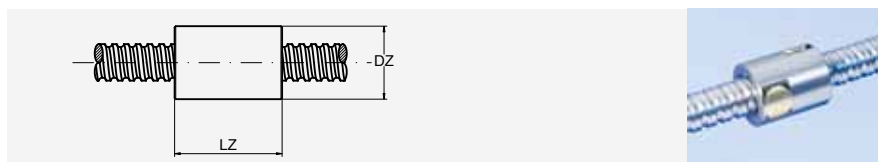
■ Shaft style B



| | 2412/8.8.145.170 | 2412/8.8.245.270 | 2412/8.8.80.138 | 2412/8.8.190.248 |
|--|------------------|------------------|-----------------|------------------|
| | A | A | B | B |
| | 8 | 8 | 8 | 8 |
| | 8 | 8 | 8 | 8 |
| | 100 | 200 | 40 | 150 |
| | 2 | 2 | 2 | 2 |
| | 1.5 | 1.5 | 1.5 | 1.5 |
| | 1200 | 1200 | 1200 | 1200 |
| | 1200 | 1200 | 1200 | 1200 |
| | 0.02 | 0.02 | 0.02 | 0.02 |
| | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| | 16 | 16 | 16 | 16 |
| | 16 | 16 | 16 | 16 |
| | 6 | 6 | 6 | 6 |

NOMINAL DIAMETER 8 mm

Ground execution with standard bearing journal P0 - P5
Series 1214



CYLINDRICAL NUT

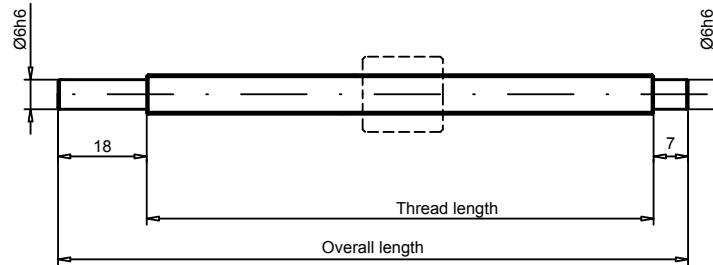
■ **Series 1214:**
Cylindrical nut without wipers

Technical data

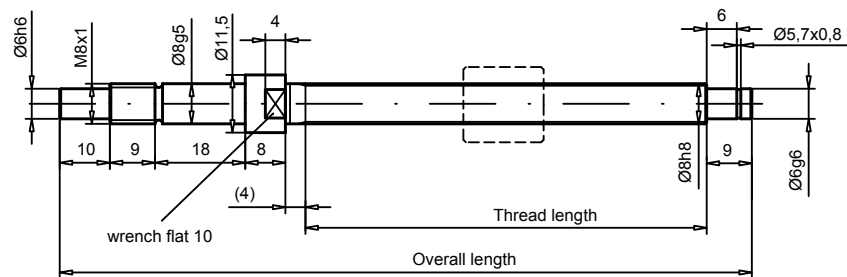
Numbering system see page 52
(Please specify the accuracy class)

| | 1214/0,5.8.145.170 | 1214/0,5.8.245.270 | 1214/0,5.8.80.138 | 1214/0,5.8.190.248 | 1214/1.8.145.170 | 1214/1.8.245.270 | 1214/1.8.80.138 | 1214/1.8.190.248 | 1214/1,5.8.145.170 | 1214/1,5.8.245.270 | 1214/1,5.8.80.138 | 1214/1,5.8.190.248 |
|--|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|--------------------|--------------------|-------------------|--------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 | 1 |
| Dynamic load capacity C_a [N] | 400 | 400 | 400 | 400 | 900 | 900 | 900 | 900 | 1200 | 1200 | 1200 | 1200 |
| Static load capacity C_{0a} [N] | 500 | 500 | 500 | 500 | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 1500 | 1500 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LZ [mm] | 13 | 13 | 13 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Nut diameter DZh6 [mm] | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |

■ Shaft style A



■ Shaft style B



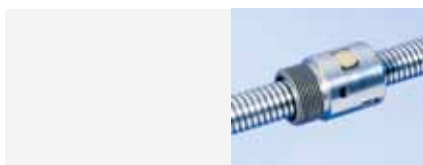
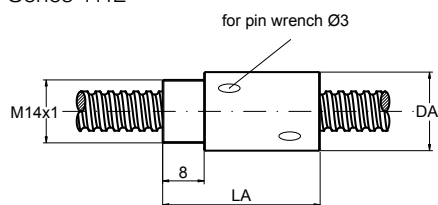
P

| | 1214/2.8.145.170 | 1214/2.8.245.270 | 1214/2.8.80.138 | 1214/2.8.190.248 | 1214/2.5.8.145.170 | 1214/2.5.8.245.270 | 1214/2.5.8.80.138 | 1214/2.5.8.190.248 | 1214/3.8.145.170 | 1214/3.8.245.270 | 1214/3.8.80.138 | 1214/3.8.190.248 | 1214/4.8.145.170 | 1214/4.8.245.270 | 1214/4.8.80.138 | 1214/4.8.190.248 |
|--|------------------|------------------|-----------------|------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| | A | A | B | B | A | A | B | B | A | A | B | B | A | A | B | B |
| | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| | 19 | 19 | 19 | 19 | 21 | 21 | 21 | 21 | 18 | 18 | 18 | 18 | 22 | 22 | 22 | 22 |
| | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |

Positioning ball screws 3 - 16 mm

NOMINAL DIAMETER 8 mm

Ground execution with standard bearing journal P0 - P5
Series 1112



NUT WITH CONNECTING THREAD

■ Series 1112:

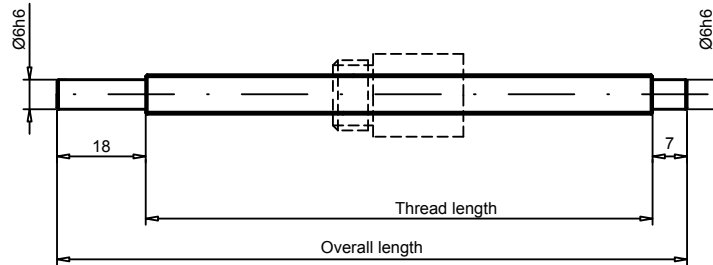
Nut with connecting thread without wipers

Technical data

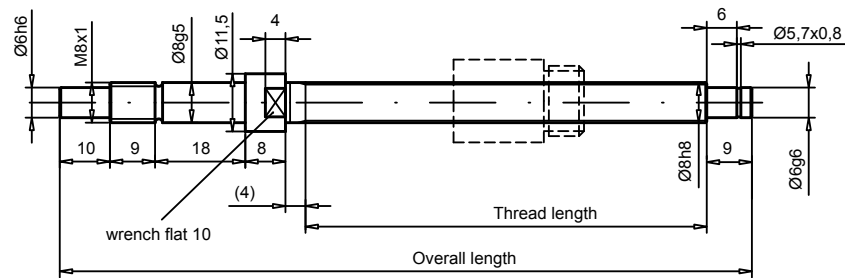
Numbering system see page 52
(Please specify the accuracy class)

| | 1112/0,5,8,145,170 | 1112/0,5,8,245,270 | 1112/0,5,8,80,138 | 1112/0,5,8,190,248 | 1112/1,8,145,170 | 1112/1,8,245,270 | 1112/1,8,80,138 | 1112/1,8,190,248 | 1112/1,5,8,145,170 | 1112/1,5,8,1245,270 | 1112/1,5,8,80,138 | 1112/1,5,8,190,248 |
|--|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|--------------------|---------------------|-------------------|--------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1 | 1 | 1 | 1 |
| Dynamic load capacity C_a [N] | 400 | 400 | 400 | 400 | 900 | 900 | 900 | 900 | 1200 | 1200 | 1200 | 1200 |
| Static load capacity C_{0a} [N] | 500 | 500 | 500 | 500 | 1200 | 1200 | 1200 | 1200 | 1500 | 1500 | 1500 | 1500 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LA [mm] | 21 | 21 | 21 | 21 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Nut diameter DA [mm] | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |

■ Shaft style A



■ Shaft style B



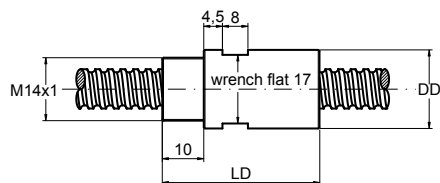
Nuts shown in standard orientation. Select one nut from table.

P

| | 1112/2.8.145.170 | 1112/2.8.245.270 | 1112/2.8.80.138 | 1112/2.8.190.248 | 1112/2.5.8.145.170 | 1112/2.5.8.245.270 | 1112/2.5.8.80.138 | 1112/2.5.8.190.248 | 1112/3.8.145.170 | 1112/3.8.245.270 | 1112/3.8.80.138 | 1112/3.8.190.248 | 1112/4.8.145.170 | 1112/4.8.245.270 | 1112/4.8.80.138 | 1112/4.8.190.248 |
|--|------------------|------------------|-----------------|------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| | A | A | B | B | A | A | B | B | A | A | B | B | A | A | B | B |
| | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| | 27 | 27 | 27 | 27 | 29 | 29 | 29 | 29 | 26 | 26 | 26 | 26 | 30 | 30 | 30 | 30 |
| | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |

NOMINAL DIAMETER 8 mm

Ground execution with standard bearing journal P0 - P5
Series 1510



NUT WITH CONNECTING THREAD

■ Series 1510:

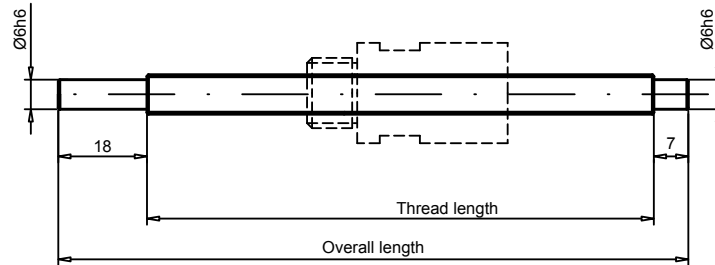
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

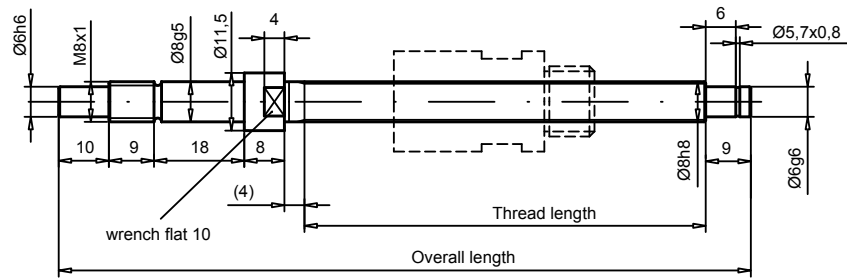
Numbering system see page 52
(Please specify the accuracy class)

| | 1510/0,5.8.145.170 | 1510/0,5.8.245.270 | 1510/0,5.8.80.138 | 1510/0,5.8.190.248 | 1510/1.8.145.170 | 1510/1.8.245.270 | 1510/1.8.80.138 | 1510/1.8.190.248 | 1510/2.8.145.170 | 1510/2.8.245.270 | 1510/2.8.80.138 | 1510/2.8.190.248 |
|-----------------------------------|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 0.6 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 200 | 200 | 200 | 200 | 600 | 600 | 600 | 600 | 1400 | 1400 | 1400 | 1400 |
| Static load capacity C_{0a} [N] | 300 | 300 | 300 | 300 | 800 | 800 | 800 | 800 | 1400 | 1400 | 1400 | 1400 |
| Max. preload [N] | 15 | 15 | 15 | 15 | 30 | 30 | 30 | 30 | 50 | 50 | 50 | 50 |
| Max. axial load [N] | 10 | 10 | 10 | 10 | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 40 |
| Friction torque T_{pr0} [Ncm] | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 |
| Nut length LD [mm] | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| Nut diameter DD [mm] | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

■ Shaft style A



■ Shaft style B



Please follow the advice on page 24/25.

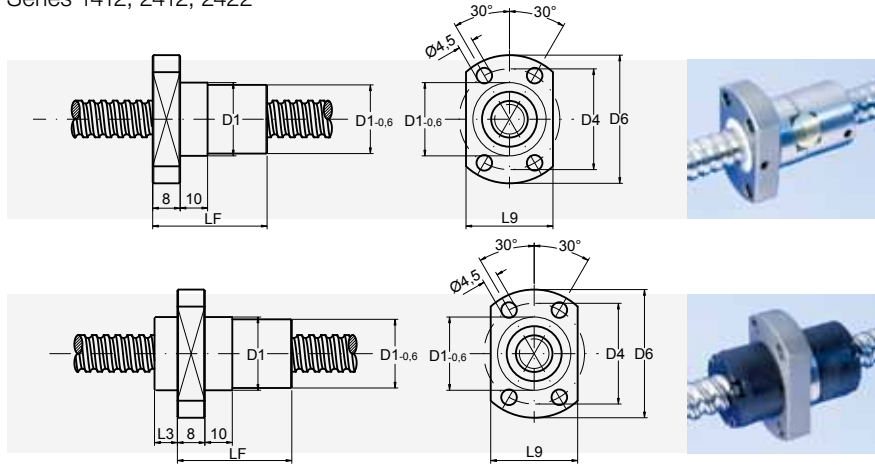


| | 1510/2,5,8,145,170 | 1510/2,5,8,245,270 | 1510/2,5,8,80,138 | 1510/2,5,8,190,248 |
|--|--------------------|--------------------|-------------------|--------------------|
| | A | A | B | B |
| | 2.5 | 2.5 | 2.5 | 2.5 |
| | 8 | 8 | 8 | 8 |
| | 100 | 200 | 40 | 150 |
| | 2 | 2 | 2 | 2 |
| | 1.5 | 1.5 | 1.5 | 1.5 |
| | 1400 | 1400 | 1400 | 1400 |
| | 1400 | 1400 | 1400 | 1400 |
| | 50 | 50 | 50 | 50 |
| | 40 | 40 | 40 | 40 |
| | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 |
| | 40 | 40 | 40 | 40 |
| | 20 | 20 | 20 | 20 |

Positioning ball screws 3 - 16 mm

NOMINAL DIAMETER 12 mm

Ground execution with standard bearing journal P0 - P5
Series 1412, 2412, 2422



FLANGE NUT

■ Series 1412:

Nut with flange and standard wipers on both ends

FLANGE NUT

■ Series 2412, 2422:

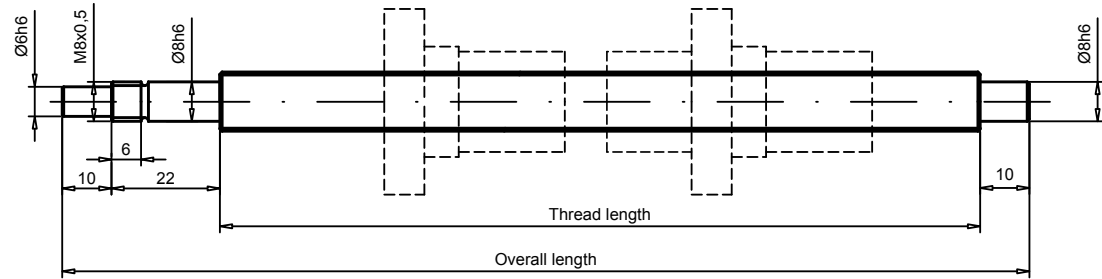
Nut with flange and standard wipers on both ends

Technical data

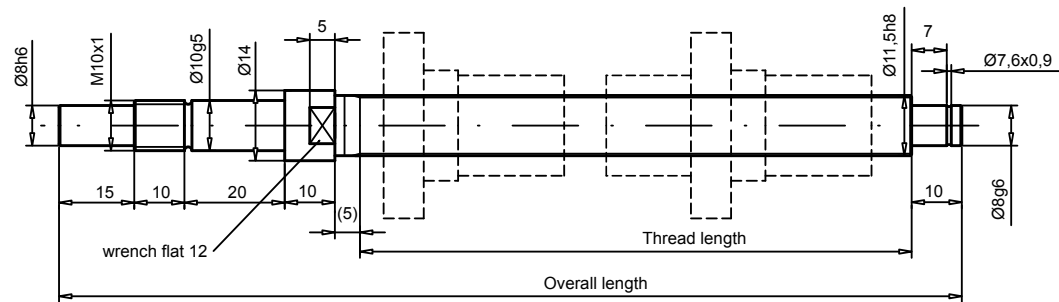
Numbering system see page 52
(Please specify the accuracy class)

| | 1412/1.12.355.397 | 1412/1.12.160.230 | 1412/1.12.510.580 | 1412/2.12.355.397 | 1412/2.12.160.230 | 1412/2.12.510.580 | 1412/3.12.355.397 | 1412/3.12.160.230 | 1412/3.12.510.580 | 1412/4.12.355.397 | 1412/4.12.160.230 | 1412/4.12.510.580 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| Nominal diameter d_N [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nominal stroke [mm] | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dynamic load capacity C_a [N] | 1100 | 1100 | 1100 | 2500 | 2500 | 2500 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 |
| Static load capacity C_{0a} [N] | 2000 | 2000 | 2000 | 3400 | 3400 | 3400 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| Nut length LF [mm] | 25 | 25 | 25 | 30 | 30 | 30 | 37 | 37 | 37 | 36 | 36 | 36 |
| Nut diameter D1g6 [mm] | 20 | 20 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 22 | 22 |
| L3 [mm] | - | - | - | - | - | - | - | - | - | - | - | - |
| D4 [mm] | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| D6 [mm] | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| L9 [mm] | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

■ Shaft style A



■ Shaft style B



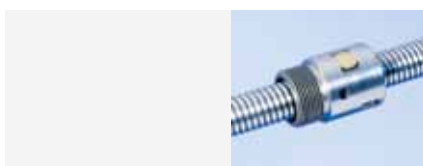
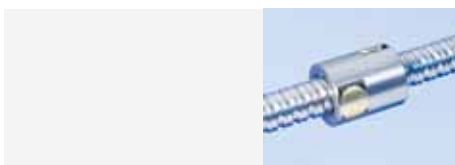
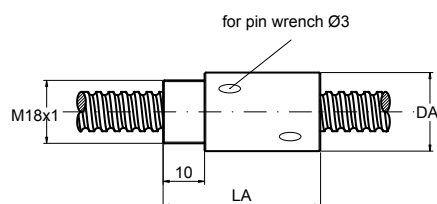
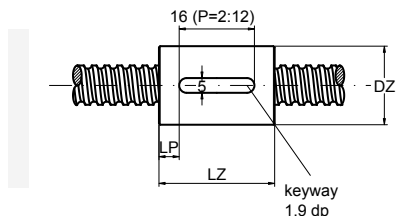
Nuts shown in standard orientation. Select one nut from table.



| | 1412/5.12.355.397 | 1412/5.12.160.230 | 1412/5.12.510.580 | 2412/5.12.355.397 | 2412/5.12.160.230 | 2412/5.12.510.580 | 2422/10.12.355.397 | 2422/10.12.160.230 | 2422/10.12.510.580 | 2422/10.12.355.397 | 2422/10.12.160.230 | 2422/10.12.510.580 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | A | B | B | A | B | B | A | B | B | A | B | B |
| | 5 | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| | 3 | 3 | 3 | 5 | 5 | 5 | 2 + 2 | 2 + 2 | 2 + 2 | 3 + 3 | 3 + 3 | 3 + 3 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| | 3600 | 3600 | 3600 | 5600 | 5600 | 5600 | 5800 | 5800 | 5800 | 8500 | 8500 | 8500 |
| | 4300 | 4300 | 4300 | 7600 | 7600 | 7600 | 7000 | 7000 | 7000 | 11100 | 11100 | 11100 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| | 39 | 39 | 39 | 25 | 25 | 25 | 20 | 20 | 20 | 30 | 30 | 30 |
| | 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| | - | - | - | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 29 | 29 | 29 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| | 37 | 37 | 37 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| | 24 | 24 | 24 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |

NOMINAL DIAMETER 12 mm

Ground execution with standard bearing journal P0 - P5
Series 1214, 1112



CYLINDRICAL NUT

■ **Series 1214:**
Cylindrical nut without wipers

NUT WITH CONNECTING THREAD

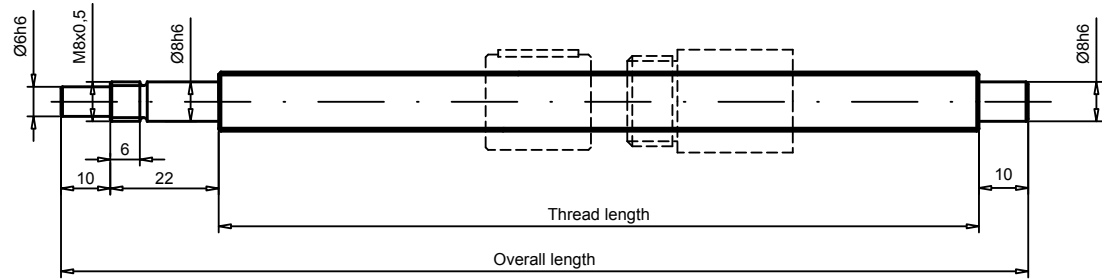
■ **Series 1112:**
Cylindrical nut without wipers

Technical data

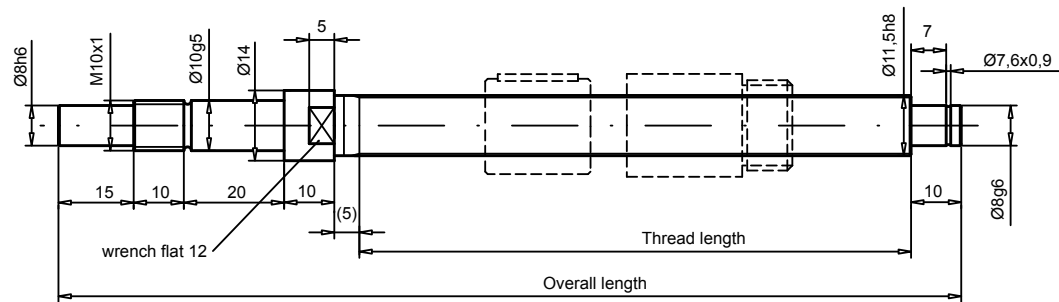
Numbering system see page 52
(Please specify the accuracy class)

| | 1214/1.12.355.397 | 1214/1.12.160.230 | 1214/1.12.510.580 | 1214/2.12.355.397 | 1214/2.12.160.230 | 1214/2.12.510.580 | 1214/3.12.355.397 | 1214/3.12.160.230 | 1214/3.12.510.580 | 1214/4.12.355.397 | 1214/4.12.160.230 | 1214/4.12.510.580 | 1214/5.12.355.397 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B | A |
| Lead P [mm] | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| Nominal diameter d_n [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nominal stroke [mm] | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dynamic load capacity C_a [N] | 1100 | 1100 | 1100 | 2500 | 2500 | 2500 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 |
| Static load capacity C_{0a} [N] | 2000 | 2000 | 2000 | 3400 | 3400 | 3400 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| Nut length LZ / LA [mm] | 17 | 17 | 17 | 19 | 19 | 19 | 26 | 26 | 26 | 22 | 22 | 22 | 26 |
| Nut diameter Dzh6 / DA [mm] | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| LP [mm] | 2.5 | 2.5 | 2.5 | 1.5 | 1.5 | 1.5 | 5 | 5 | 5 | 3.5 | 3.5 | 3.5 | 5 |

■ Shaft style A



■ Shaft style B



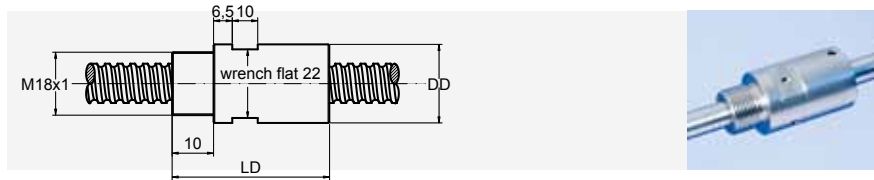
Nuts shown in standard orientation. Select one nut from table.

P

| 1214/5.12.160.230 | 1214/5.12.510.580 | 1112/1.12.355.397 | 1112/1.12.160.230 | 1112/1.12.510.580 | 1112/2.12.355.397 | 1112/2.12.160.230 | 1112/2.12.510.580 | 1112/3.12.355.397 | 1112/3.12.160.230 | 1112/3.12.510.580 | 1112/4.12.355.397 | 1112/4.12.160.230 | 1112/4.12.510.580 | 1112/5.12.355.397 | 1112/5.12.160.230 | 1112/5.12.510.580 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| B | B | A | B | B | A | B | B | A | B | B | A | B | B | A | B | B |
| 5 | 5 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 2 | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3600 | 3600 | 1100 | 1100 | 1100 | 2500 | 2500 | 2500 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 | 3600 |
| 4300 | 4300 | 2000 | 2000 | 2000 | 3400 | 3400 | 3400 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 | 4300 |
| 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| 26 | 26 | 24 | 24 | 24 | 29 | 29 | 29 | 36 | 36 | 36 | 33 | 33 | 33 | 36 | 36 | 36 |
| 19 | 19 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOMINAL DIAMETER 12 mm

Ground execution with standard bearing journal P0 - P5
Series 1510



NUT WITH CONNECTING THREAD

■ Series 1510:

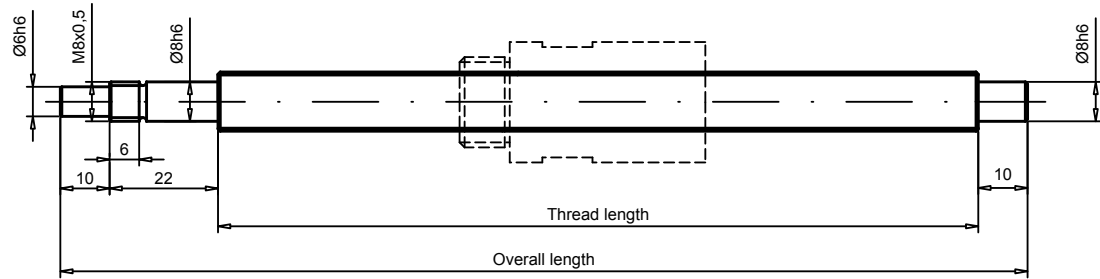
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

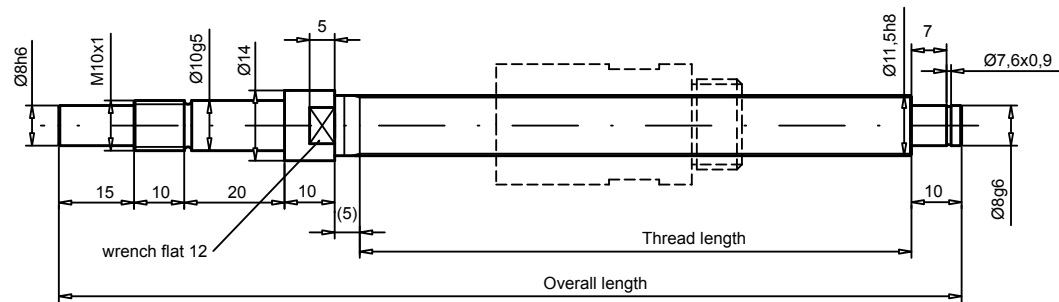
Numbering system see page 52
(Please specify the accuracy class)

| | 1510/1.12.355.397 | 1510/1.12.160.230 | 1510/1.12.510.580 | 1510/2.12.355.397 | 1510/2.12.160.230 | 1510/2.12.510.580 | 1510/3.12.355.397 | 1510/3.12.160.230 | 1510/3.12.510.580 | 1510/4.12.355.397 | 1510/4.12.160.230 | 1510/4.12.510.580 |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| Nominal diameter d_N [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nominal stroke [mm] | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 0.8 | 0.8 | 0.8 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dynamic load capacity C_a [N] | 800 | 800 | 800 | 1800 | 1800 | 1800 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Static load capacity C_{0a} [N] | 1300 | 1300 | 1300 | 2200 | 2200 | 2200 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 |
| Max. preload [N] | 50 | 50 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Max. axial load [N] | 40 | 40 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Friction torque T_{pr0} [Ncm] | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 |
| Nut length LD [mm] | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| Nut diameter DD [mm] | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

■ Shaft style A



■ Shaft style B



Please follow the advice on page 24/25.

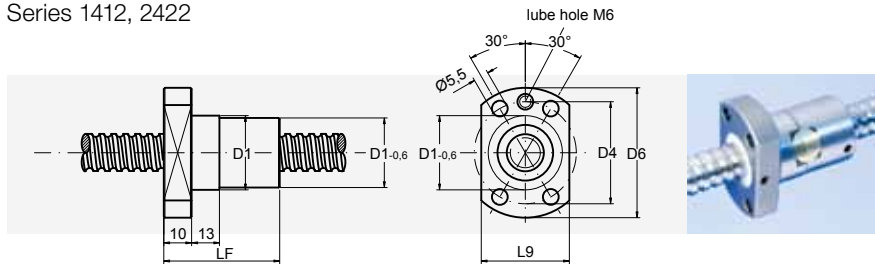
P

| | 1510/5.12.355.397 | 1510/5.12.160.230 | 1510/5.12.510.580 |
|---------|-------------------|-------------------|-------------------|
| A | B | B | |
| 5 | 5 | 5 | |
| 12 | 12 | 12 | |
| 300 | 100 | 450 | |
| 2 | 2 | 2 | |
| 2 | 2 | 2 | |
| 2500 | 2500 | 2500 | |
| 2800 | 2800 | 2800 | |
| 80 | 80 | 80 | |
| 70 | 70 | 70 | |
| 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | |
| 49 | 49 | 49 | |
| 24 | 24 | 24 | |

Positioning ball screws 3 - 16 mm

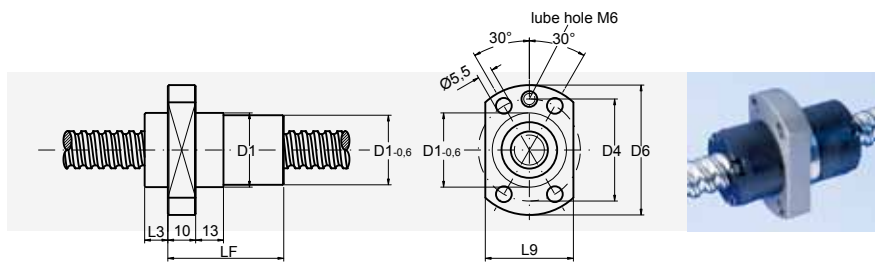
NOMINAL DIAMETER 16 mm

Ground execution with standard bearing journal P0 - P5
Series 1412, 2422



FLANGE NUT

■ **Series 1412:**
Nut with flange and standard wipers on both ends



FLANGE NUT

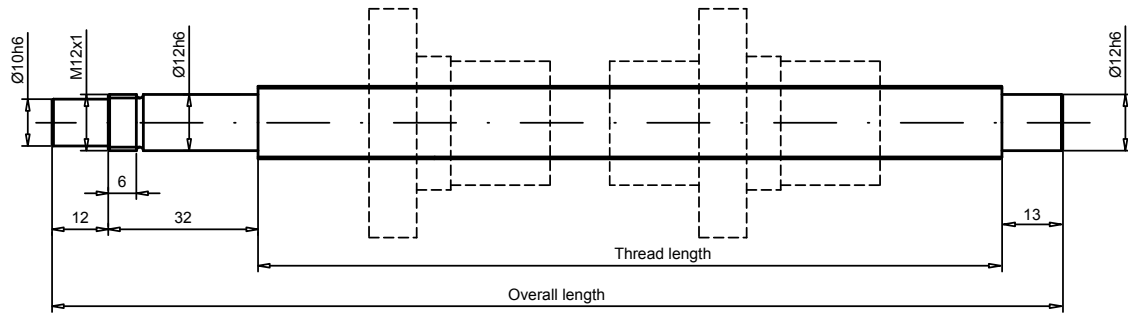
■ **Series 2422:**
Nut with flange and standard wipers on both ends

Technical data

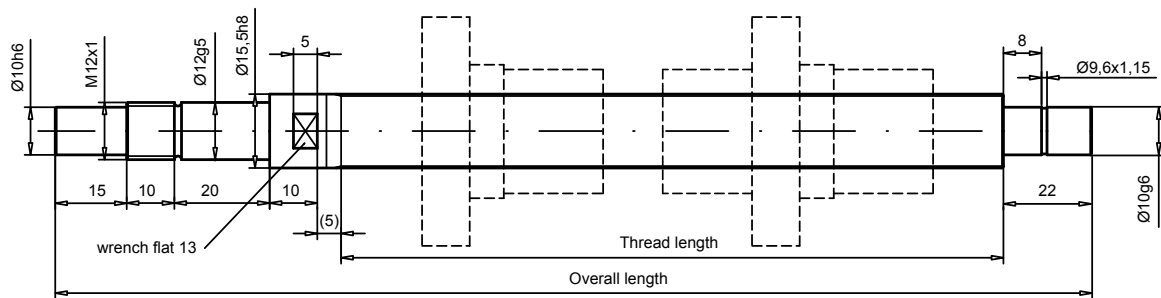
Numbering system see page 52
(Please specify the accuracy class)

| | 1412/2.16.470.527 | 1412/2.16.189.271 | 1412/2.16.689.771 | 1412/4.16.470.527 | 1412/4.16.189.271 | 1412/4.16.689.771 | 1412/5.16.470.527 | 1412/5.16.189.271 | 1412/5.16.689.771 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Nominal stroke [mm] | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3.5 | 3.5 | 3.5 |
| Dynamic load capacity C_a [N] | 2900 | 2900 | 2900 | 8900 | 8900 | 8900 | 10100 | 10100 | 10100 |
| Static load capacity C_{0a} [N] | 4900 | 4900 | 4900 | 11400 | 11400 | 11400 | 12000 | 12000 | 12000 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Max. friction torque [Ncm] (preloaded nut) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| Nut length LF [mm] | 32 | 32 | 32 | 38 | 38 | 38 | 44 | 44 | 44 |
| Nut diameter D1g6 [mm] | 25 | 25 | 25 | 28 | 28 | 28 | 28 | 28 | 28 |
| L3 [mm] | - | - | - | - | - | - | - | - | - |
| D4 [mm] | 35 | 35 | 35 | 38 | 38 | 38 | 38 | 38 | 38 |
| D6 [mm] | 44 | 44 | 44 | 48 | 48 | 48 | 48 | 48 | 48 |
| L9 [mm] | 29 | 29 | 29 | 31 | 31 | 31 | 31 | 31 | 31 |

■ Shaft style A



■ Shaft style B



Nuts shown in standard orientation. Select one nut from table.

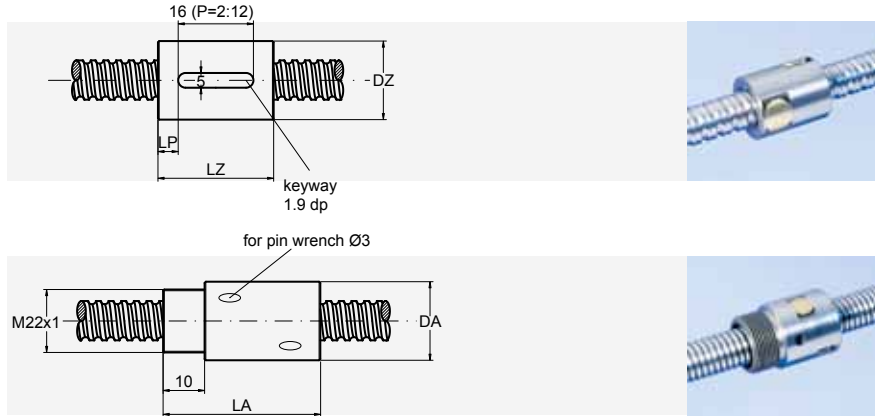
*Please specify the number of circles



| 2422/10.16.470.527* | 2422/10.16.189.271* | 2422/10.16.689.771* | 2422/10.16.470.527* | 2422/10.16.189.271* | 2422/10.16.689.771* | 2422/16.16.470.527 | 2422/16.16.189.271 | 2422/16.16.689.771 | 2422/20.16.470.527 | 2422/20.16.189.271 | 2422/20.16.689.771 | 2422/30.16.470.527 | 2422/30.16.189.271 | 2422/30.16.689.771 |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| A | B | B | A | B | B | A | B | B | A | B | B | A | B | B |
| 10 | 10 | 10 | 10 | 10 | 10 | 16 | 16 | 16 | 20 | 20 | 20 | 30 | 30 | 30 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| 3 + 3 | 3 + 3 | 3 + 3 | 5 + 5 | 5 + 5 | 5 + 5 | 2 + 2 | 2 + 2 | 2 + 2 | 2 + 2 | 2 + 2 | 2 + 2 | 0.5+0.5 | 0.5+0.5 | 0.5+0.5 |
| 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 19600 | 19600 | 19600 | 31400 | 31400 | 31400 | 13400 | 13400 | 13400 | 13000 | 13000 | 13000 | 2300 | 2300 | 2300 |
| 27700 | 27700 | 27700 | 47800 | 47800 | 47800 | 47800 | 18300 | 18300 | 17900 | 17900 | 17900 | 2500 | 2500 | 2500 |
| 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| 32 | 32 | 32 | 52 | 52 | 52 | 31 | 31 | 31 | 38 | 38 | 38 | 26 | 26 | 26 |
| 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 12 |
| 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |

NOMINAL DIAMETER 16 mm

Ground execution with standard bearing journal P0 - P5
Series 1214, 1112



CYLINDRICAL NUT

■ **Series 1214:**
Cylindrical nut without wipers

NUT WITH CONNECTING THREAD

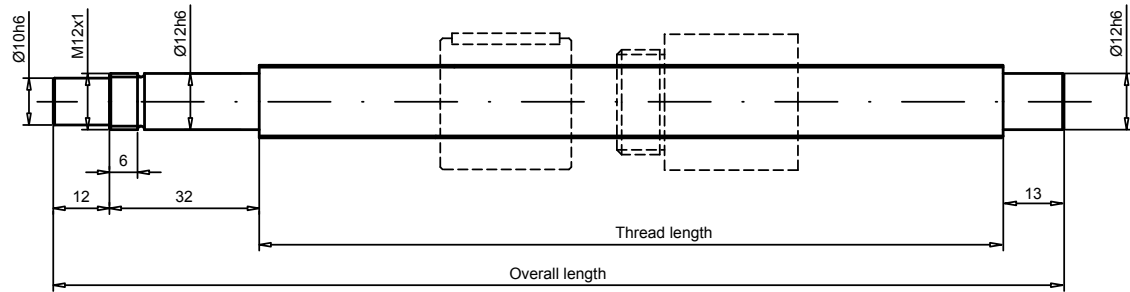
■ **Series 1112:**
Nut with connecting thread without wipers

Technical data

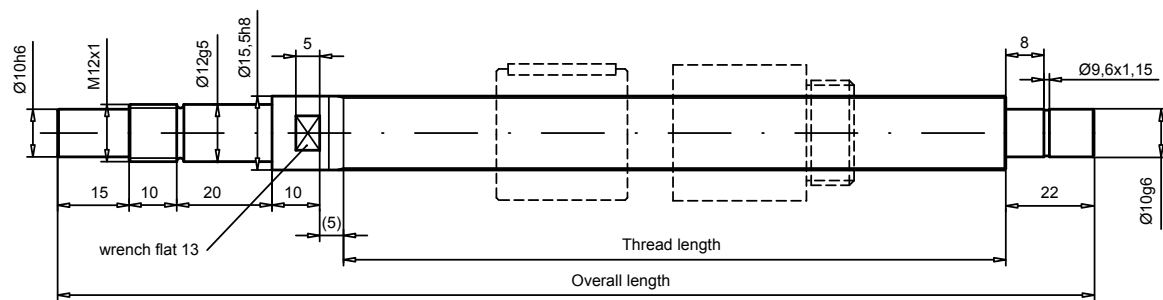
Numbering system see page 52
(Please specify the accuracy class)

| | 1214/2.16.470.527 | 1214/2.16.189.271 | 1214/2.16.689.771 | 1214/4.16.470.527 | 1214/4.16.189.271 | 1214/4.16.689.771 | 1214/5.16.470.527 | 1214/5.16.189.271 | 1214/5.16.689.771 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Nominal stroke [mm] | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3.5 | 3.5 | 3.5 |
| Dynamic load capacity C_a [N] | 2900 | 2900 | 2900 | 8900 | 8900 | 8900 | 10100 | 10100 | 10100 |
| Static load capacity C_{0a} [N] | 4900 | 4900 | 4900 | 11400 | 11400 | 11400 | 12000 | 12000 | 12000 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| Max. friction torque [Ncm] (preloaded nut) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| Nut length LZ / LA [mm] | 19 | 19 | 19 | 21 | 21 | 21 | 27 | 27 | 27 |
| Nut diameter DZh6 / DA [mm] | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| LP [mm] | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 5.5 | 5.5 | 5.5 |

■ Shaft style A



■ Shaft style B



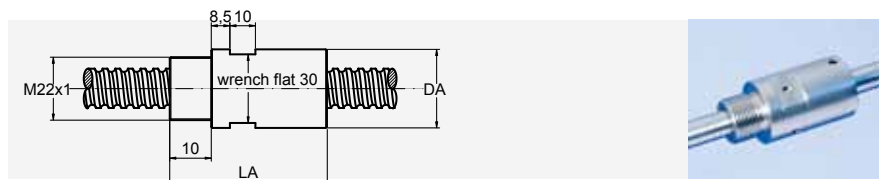
Nuts shown in standard orientation. Select one nut from table.



| 1112/2.16.470.527 | 1112/2.16.189.271 | 1112/2.16.689.771 | 1112/4.16.470.527 | 1112/4.16.189.271 | 1112/4.16.689.771 | 1112/5.16.470.527 | 1112/5.16.189.271 | 1112/5.16.689.771 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A | B | B | A | B | B | A | B | B |
| 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3.5 | 3.5 | 3.5 |
| 2900 | 2900 | 2900 | 8900 | 8900 | 8900 | 10100 | 10100 | 10100 |
| 4900 | 4900 | 4900 | 11400 | 11400 | 11400 | 12000 | 12000 | 12000 |
| 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| 29 | 29 | 29 | 36 | 36 | 36 | 43 | 43 | 43 |
| 25.5 | 25.5 | 25.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| - | - | - | - | - | - | - | - | - |

NOMINAL DIAMETER 16 mm

Ground execution with standard bearing journal P0 - P5
Series 1510



NUT WITH CONNECTING THREAD

■ Series 1510:

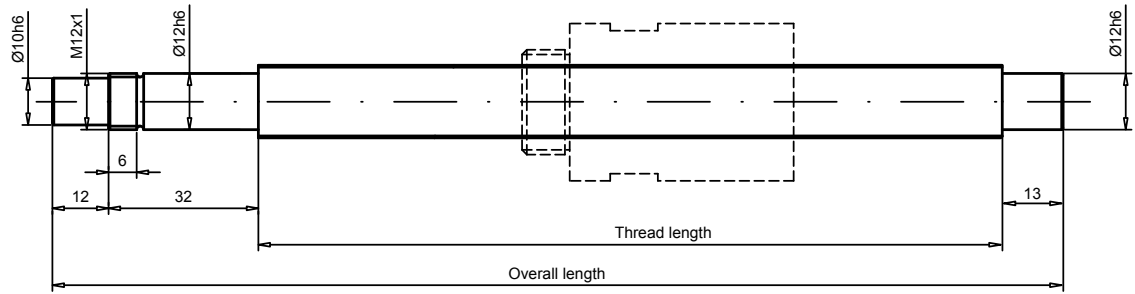
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

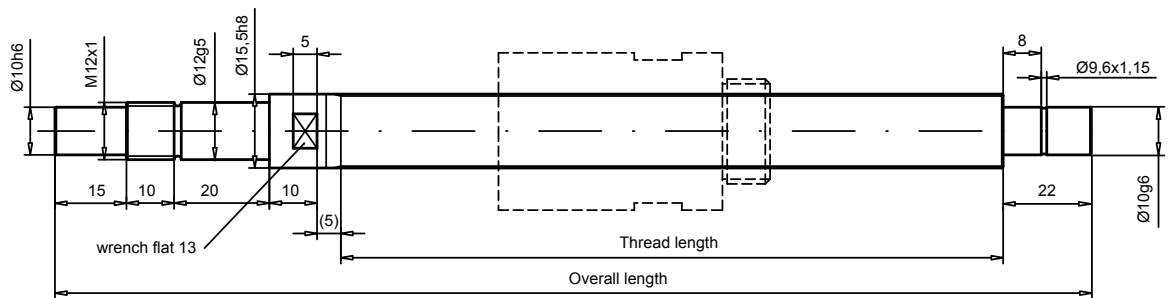
Numbering system see page 52
(Please specify the accuracy class)

| | 1510/2.16.470.527 | 1510/2.16.189.271 | 1510/2.16.689.771 | 1510/2.5.16.470.527 | 1510/2.5.16.189.271 | 1510/2.5.16.689.771 | 1510/4.16.470.527 | 1510/4.16.189.271 | 1510/4.16.689.771 | 1510/5.16.470.527 | 1510/5.16.189.271 | 1510/5.16.689.771 |
|-----------------------------------|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 4 | 4 | 4 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Nominal stroke [mm] | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 |
| Dynamic load capacity C_a [N] | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 3000 | 3000 | 3000 | 3900 | 3900 | 3900 |
| Static load capacity C_{0a} [N] | 3200 | 3200 | 3200 | 3200 | 3200 | 3200 | 4000 | 4000 | 4000 | 4700 | 4700 | 4700 |
| Max. preload [N] | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 150 | 150 | 150 |
| Max. axial load [N] | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 130 | 130 | 130 |
| Friction torque T_{pro} [Ncm] | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 |
| Nut length LA [mm] | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| Nut diameter DA [mm] | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |

■ Shaft style A



■ Shaft style B

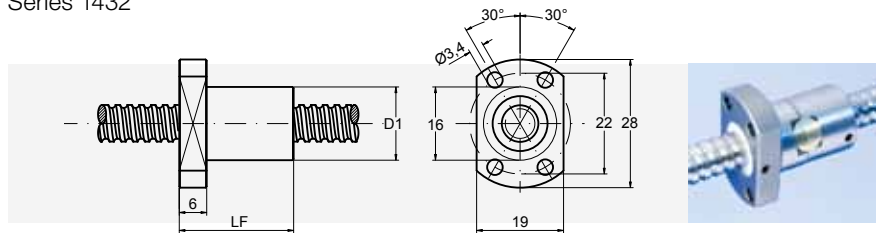


Please follow the advice on page 24/25.

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 8 mm

Rolled execution with standard bearing journal T7 - T10
Series 1432



FLANGE NUT

■ Series 1432:

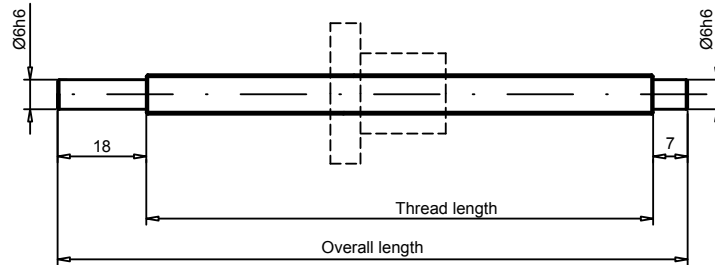
Nut with flange and standard wipers on both ends

Technical data

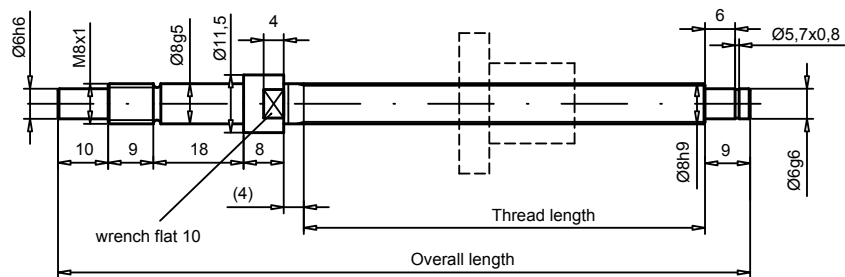
Numbering system see page 52
(Please specify the accuracy class)

| | 1432/1.8.145.170 | 1432/1.8.245.270 | 1432/1.8.80.138 | 1432/1.8.190.248 | 1432/2.8.145.170 | 1432/2.8.245.270 | 1432/2.8.80.138 | 1432/2.8.190.248 | 1432/2.5.8.145.170 | 1432/2.5.8.245.270 | 1432/2.5.8.80.138 | 1432/2.5.8.190.248 |
|--|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|--------------------|--------------------|-------------------|--------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 1100 | 1100 | 1100 | 1100 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| Static load capacity C_{0a} [N] | 1400 | 1400 | 1400 | 1400 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LF [mm] | 23 | 23 | 23 | 23 | 28 | 28 | 28 | 28 | 30 | 30 | 30 | 30 |
| Nut diameter D1g6 [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

■ Shaft style A



■ Shaft style B

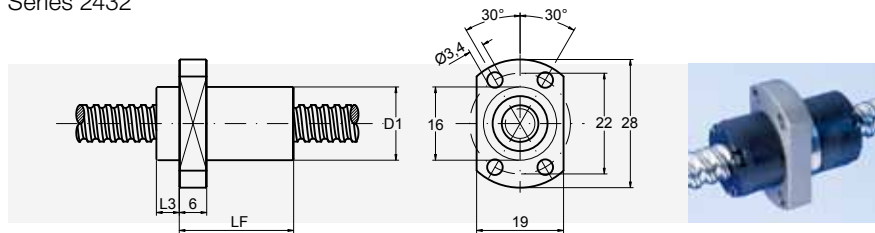


| | 1432/3.8.145.170 | 1432/3.8.245.270 | 1432/3.8.80.138 | 1432/3.8.190.248 | 1432/4.8.145.170 | 1432/4.8.245.270 | 1432/4.8.80.138 | 1432/4.8.190.248 |
|--|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| | A | A | B | B | A | A | B | B |
| | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| | 27 | 27 | 27 | 27 | 31 | 31 | 31 | 31 |
| | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 8 mm

Rolled execution with standard bearing journal T7 - T10
Series 2432



FLANGE NUT

■ Series 2432:

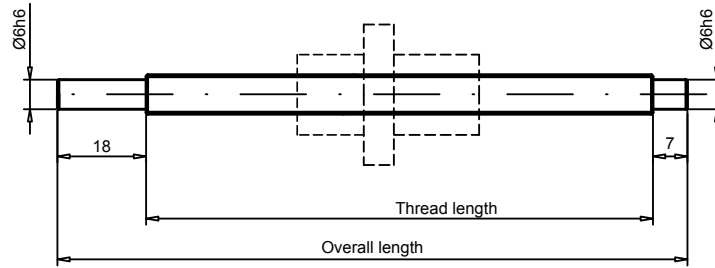
Nut with flange and standard wipers on both ends

Technical data

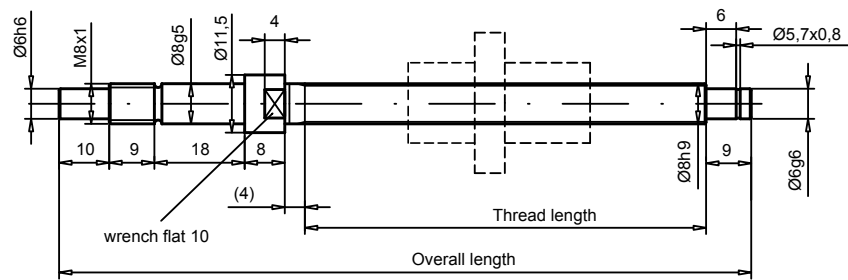
Numbering system see page 52
(Please specify the accuracy class)

| | 2432/2.8.145.170 | 2432/2.8.245.270 | 2432/2.8.80.138 | 2432/2.8.190.248 | 2432/4.8.145.170 | 2432/4.8.245.270 | 2432/4.8.80.138 | 2432/4.8.190.248 | 2432/5.8.145.170 | 2432/5.8.245.270 | 2432/5.8.80.138 | 2432/5.8.190.248 |
|--|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 2800 | 2800 | 2800 | 2800 | 2700 | 2700 | 2700 | 2700 | 1800 | 1800 | 1800 | 1800 |
| Static load capacity C_{0a} [N] | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 1900 | 1900 | 1900 | 1900 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LF [mm] | 12 | 12 | 12 | 12 | 21 | 21 | 21 | 21 | 16 | 16 | 16 | 16 |
| Nut diameter D1g6 [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| L3 [mm] | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

■ Shaft style A



■ Shaft style B

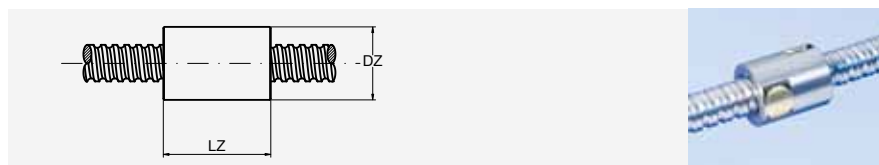


Nuts shown in standard orientation. Select one nut from table.

Transport ball screws 8 - 16 mm

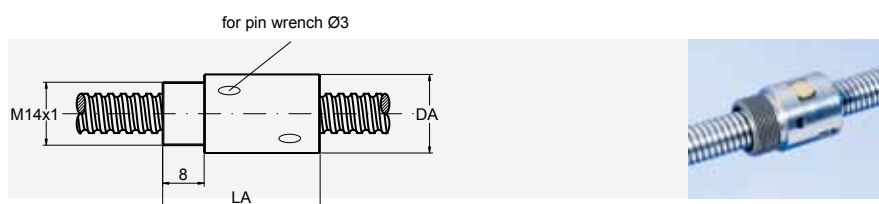
NOMINAL DIAMETER 8 mm

Rolled execution with standard bearing journal T7 - T10
Series 1234, 1132



CYLINDRICAL NUT

■ **Series 1234:**
Cylindrical nut without wipers



NUT WITH CONNECTING THREAD

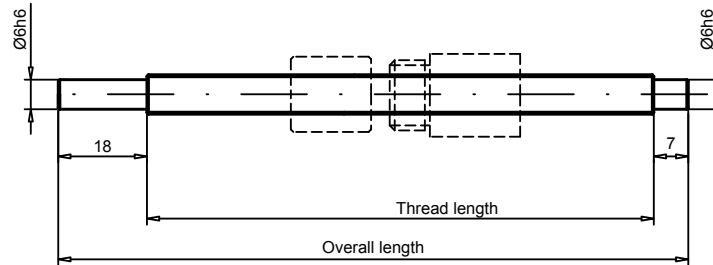
■ **Series 1132:**
Nut with connecting thread without wipers

Technical data

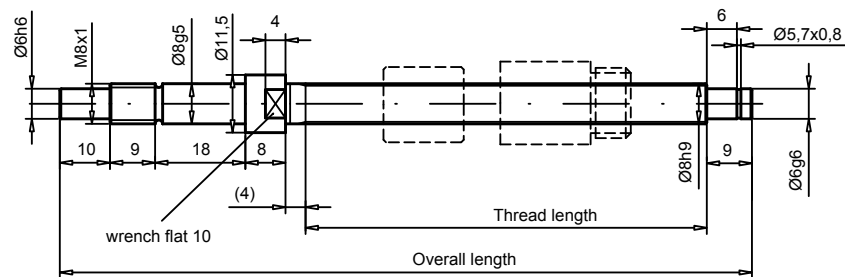
Numbering system see page 52
(Please specify the accuracy class)

| | 1234/1.8.145.170 | 1234/1.8.245.270 | 1234/1.8.80.138 | 1234/1.8.190.248 | 1234/2.8.145.170 | 1234/2.8.245.270 | 1234/2.8.190.248 | 1234/2.5.8.145.170 | 1234/2.5.8.245.270 | 1234/2.5.8.80.138 | 1234/2.5.8.190.248 | 1234/3.8.145.170 |
|--|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|--------------------|--------------------|-------------------|--------------------|------------------|
| Shaft style | A | A | B | B | A | A | B | A | A | B | B | A |
| Lead P [mm] | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 3 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 150 | 100 | 200 | 40 | 150 | 100 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 1100 | 1100 | 1100 | 1100 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| Static load capacity C_{0a} [N] | 1400 | 1400 | 1400 | 1400 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Nut length LZ / LA [mm] | 14 | 14 | 14 | 14 | 19 | 19 | 19 | 21 | 21 | 21 | 21 | 18 |
| Nut diameter DZh6 / DA [mm] | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |

■ Shaft style A



■ Shaft style B



Nuts shown in standard orientation. Select one nut from table.

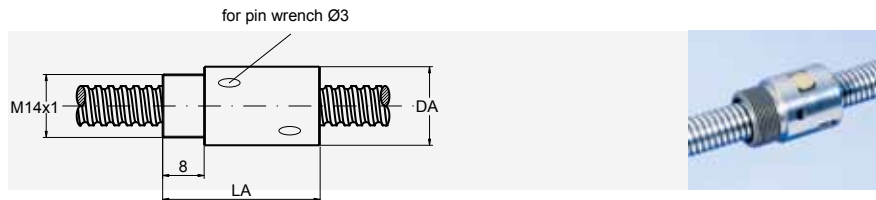


| | 1234/3.8.245.270 | 1234/3.8.80.138 | 1234/3.8.190.248 | 1234/4.8.145.170 | 1234/4.8.245.270 | 1234/4.8.80.138 | 1234/4.8.190.248 | 1132/1.8.145.170 | 1132/1.8.245.270 | 1132/1.8.80.138 | 1132/1.8.190.248 | 1132/2.8.145.170 | 1132/2.8.245.270 | 1132/2.8.80.138 | 1132/2.8.190.248 |
|--|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| | A | B | B | A | A | B | B | A | A | B | B | A | A | B | B |
| | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1100 | 1100 | 1100 | 1100 | 1800 | 1800 | 1800 | 1800 |
| | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1400 | 1400 | 1400 | 1400 | 1900 | 1900 | 1900 | 1900 |
| | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 |
| | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| | 18 | 18 | 18 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 27 | 27 | 27 | 27 |
| | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |

Transport ball screws 8 - 16 mm

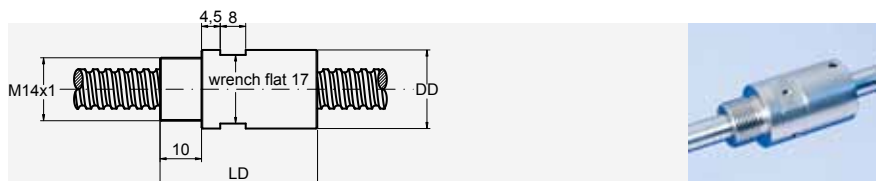
NOMINAL DIAMETER 8 mm

Rolled execution with standard bearing journal T7 - T10
Series 1132, 1530



NUT WITH CONNECTING THREAD

■ **Series 1132:**
Nut with connecting thread without wipers



NUT WITH CONNECTING THREAD

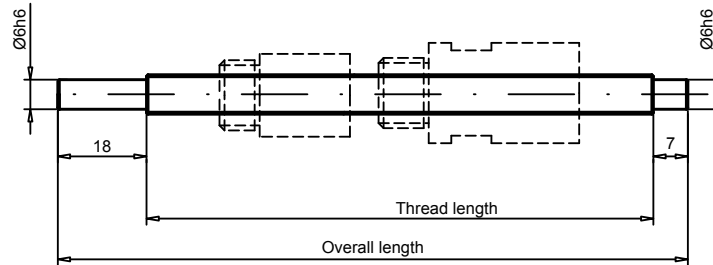
■ **Series 1530:**
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

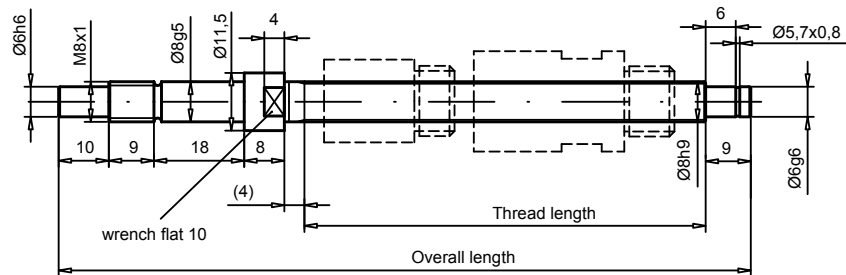
Numbering system see page 52
(Please specify the accuracy class)

| | 1132/2,5,8,145,170 | 1132/2,5,8,245,270 | 1132/2,5,8,80,138 | 1132/2,5,8,190,248 | 1132/3,8,145,170 | 1132/3,8,245,270 | 1132/3,8,80,138 | 1132/3,8,190,248 | 1132/4,8,145,170 | 1132/4,8,245,270 | 1132/4,8,80,138 | 1132/4,8,190,248 |
|--|--------------------|--------------------|-------------------|--------------------|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|
| Shaft style | A | A | B | B | A | A | B | B | A | A | B | B |
| Lead P [mm] | 2.5 | 2.5 | 2.5 | 2.5 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| Nominal diameter d_N [mm] | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Nominal stroke [mm] | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Dynamic load capacity C_a [N] | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 | 1800 |
| Static load capacity C_{0a} [N] | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Max. preload [N] | - | - | - | - | - | - | - | - | - | - | - | - |
| Max. axial load [N] | - | - | - | - | - | - | - | - | - | - | - | - |
| Friction torque T_{pro} [Ncm] | - | - | - | - | - | - | - | - | - | - | - | - |
| Nut length LA / LD [mm] | 29 | 29 | 29 | 29 | 26 | 26 | 26 | 26 | 30 | 30 | 30 | 30 |
| Nut diameter DA / DD [mm] | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 |

■ Shaft style A



■ Shaft style B



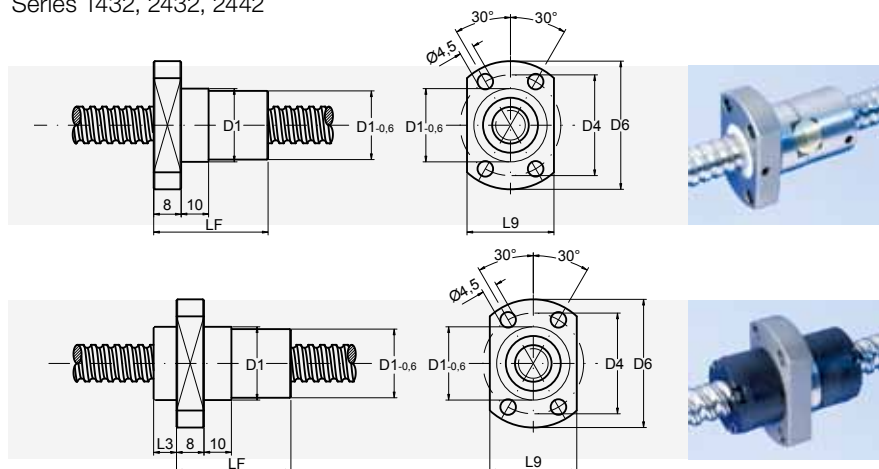
Nuts shown in standard orientation. Select one nut from table. Please follow the advice on page 24/25.

| | 1530/1.8.145.170 | 1530/1.8.245.270 | 1530/1.8.80.138 | 1530/1.8.190.248 | 1530/2.8.145.170 | 1530/2.8.245.270 | 1530/2.8.80.138 | 1530/2.8.190.248 | 1530/2.5.8.145.170 | 1530/2.5.8.245.270 | 1530/2.5.8.80.138 | 1530/2.5.8.190.248 |
|--|------------------|------------------|-----------------|------------------|------------------|------------------|-----------------|------------------|--------------------|--------------------|-------------------|--------------------|
| | A | A | B | B | A | A | B | B | A | A | B | B |
| | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 |
| | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 | 100 | 200 | 40 | 150 |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | 800 | 800 | 800 | 800 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| | 900 | 900 | 900 | 900 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| | - | - | - | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - | - | - | - |
| | 30 | 30 | 30 | 30 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | 20 | 20 | 20 | 20 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 | 0.7-1.5 |
| | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 12 mm

Rolled execution with standard bearing journal T7 - T10
Series 1432, 2432, 2442



FLANGE NUT

■ Series 1432:

Nut with flange and standard wipers on both ends

FLANGE NUT

■ Series 2432, 2442:

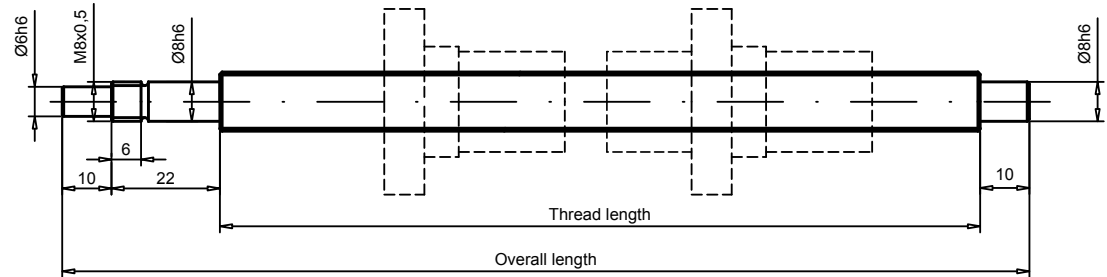
Nut with flange and standard wipers on both ends

Technical data

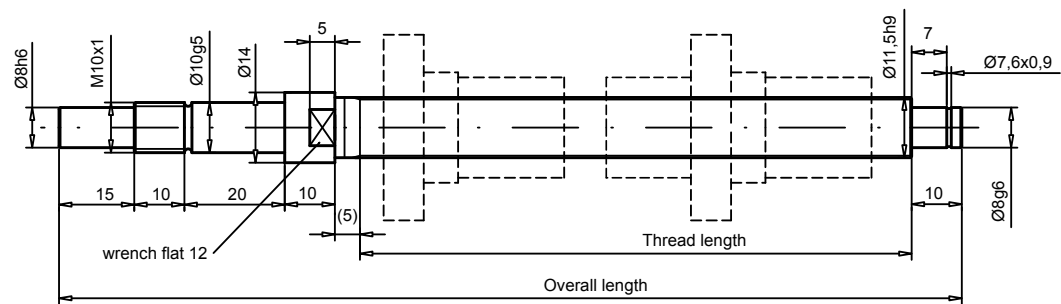
Numbering system see page 52
(Please specify the accuracy class)

| | 1432/1.12.355.397 | 1432/1.12.160.230 | 1432/1.12.510.580 | 1432/2.12.355.397 | 1432/2.12.160.230 | 1432/2.12.510.580 | 1432/3.12.355.397 | 1432/3.12.160.230 | 1432/3.12.510.580 | 1432/4.12.355.397 | 1432/4.12.160.230 | 1432/4.12.510.580 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| Nominal diameter d_N [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nominal stroke [mm] | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dynamic load capacity C_a [N] | 1300 | 1300 | 1300 | 2300 | 2300 | 2300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 |
| Static load capacity C_{0a} [N] | 2200 | 2200 | 2200 | 3100 | 3100 | 3100 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| Nut length LF [mm] | 25 | 25 | 25 | 30 | 30 | 30 | 37 | 37 | 37 | 36 | 36 | 36 |
| Nut diameter D1g6 [mm] | 20 | 20 | 20 | 20 | 20 | 20 | 22 | 22 | 22 | 22 | 22 | 22 |
| L3 [mm] | - | - | - | - | - | - | - | - | - | - | - | - |
| D4 [mm] | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| D6 [mm] | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| L9 [mm] | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

■ Shaft style A



■ Shaft style B



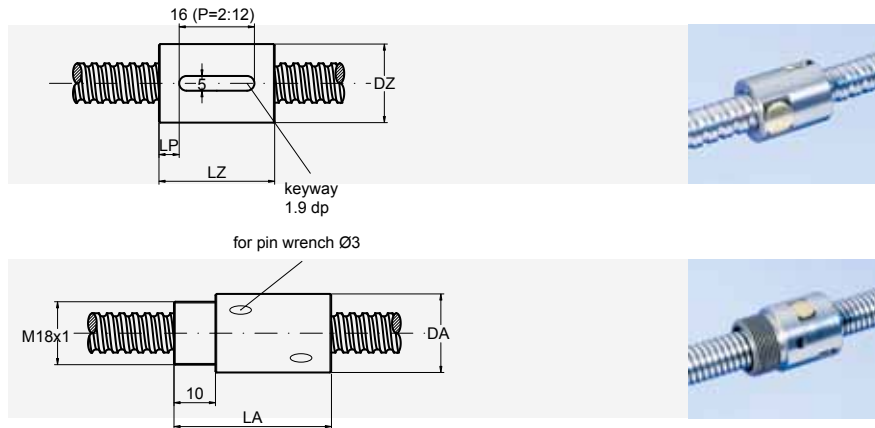
Nuts shown in standard orientation. Select one nut from table.

| 1432/5.12.355.397 | 1432/5.12.160.230 | 1432/5.12.510.580 | 2432/5.12.355.397 | 2432/5.12.160.230 | 2432/5.12.510.580 | 2442/10.12.355.397 | 2442/10.12.160.230 | 2442/10.12.510.580 | 2442/10.12.355.397 | 2442/10.12.160.230 | 2442/10.12.510.580 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| A | B | B | A | B | B | A | B | B | A | B | B |
| 5 | 5 | 5 | 5 | 5 | 5 | 10 | 10 | 10 | 10 | 10 | 10 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| 3 | 3 | 3 | 5 | 5 | 5 | 2 + 2 | 2 + 2 | 2 + 2 | 3 + 3 | 3 + 3 | 3 + 3 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 3200 | 3200 | 3200 | 5100 | 5100 | 5100 | 5300 | 5300 | 5300 | 7700 | 7700 | 7700 |
| 3900 | 3900 | 3900 | 6900 | 6900 | 6900 | 6400 | 6400 | 6400 | 10000 | 10000 | 10000 |
| 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 |
| 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| 39 | 39 | 39 | 25 | 25 | 25 | 20 | 20 | 20 | 30 | 30 | 30 |
| 22 | 22 | 22 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| - | - | - | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| 29 | 29 | 29 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 37 | 37 | 37 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 24 | 24 | 24 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 12 mm

Rolled execution with standard bearing journal T7 - T10
Series 1234, 1132



CYLINDRICAL NUT

■ **Series 1234:**
Cylindrical nut without wipers

NUT WITH CONNECTING THREAD

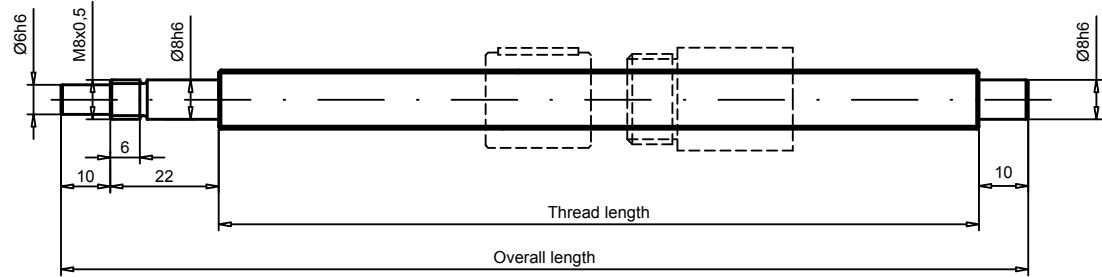
■ **Series 1132:**
Nut with connecting thread without wipers

Technical data

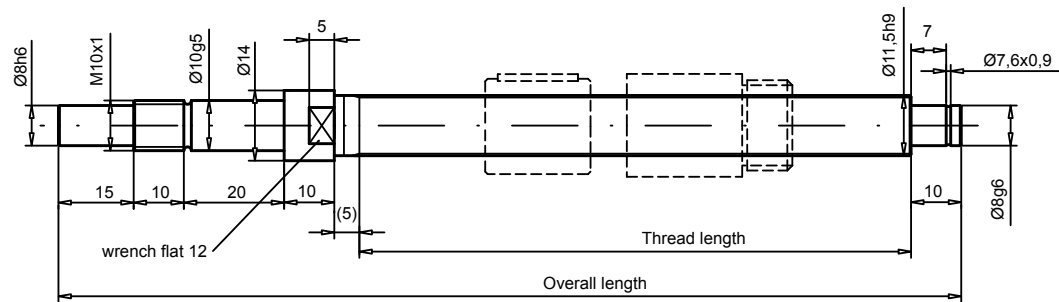
Numbering system see page 52
(Please specify the accuracy class)

| | 1234/1.12.355.397 | 1234/1.12.160.230 | 1234/1.12.510.580 | 1234/2.12.355.397 | 1234/2.12.160.230 | 1234/2.12.510.580 | 1234/3.12.355.397 | 1234/3.12.160.230 | 1234/3.12.510.580 | 1234/4.12.355.397 | 1234/4.12.160.230 | 1234/4.12.510.580 | 1234/5.12.355.397 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B | A |
| Lead P [mm] | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 |
| Nominal diameter d_N [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nominal stroke [mm] | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dynamic load capacity C_a [N] | 1300 | 1300 | 1300 | 2300 | 2300 | 2300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3200 |
| Static load capacity C_{0a} [N] | 2200 | 2200 | 2200 | 3100 | 3100 | 3100 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 |
| Max. axial play [mm] with backlash | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Max. friction torque [Ncm] (preloaded nut) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| Nut length LZ / LA [mm] | 17 | 17 | 17 | 19 | 19 | 19 | 26 | 26 | 26 | 22 | 22 | 22 | 26 |
| Nut diameter Dzh6 / DA [mm] | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| LP [mm] | 2.5 | 2.5 | 2.5 | 1.5 | 1.5 | 1.5 | 5 | 5 | 5 | 3.5 | 3.5 | 3.5 | 5 |

■ Shaft style A



■ Shaft style B



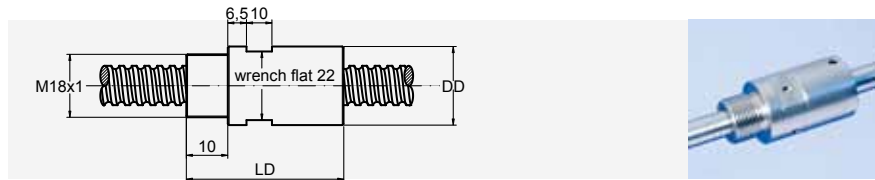
Nuts shown in standard orientation. Select one nut from table.

| 1234/5.12.160.230 | 1234/5.12.510.580 | 1132/1.12.355.397 | 1132/1.12.160.230 | 1132/1.12.510.580 | 1132/2.12.355.397 | 1132/2.12.160.230 | 1132/2.12.510.580 | 1132/3.12.355.397 | 1132/3.12.160.230 | 1132/3.12.510.580 | 1132/4.12.355.397 | 1132/4.12.160.230 | 1132/4.12.510.580 | 1132/5.12.355.397 | 1132/5.12.160.230 | 1132/5.12.510.580 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| B | B | A | B | B | A | B | B | A | B | B | A | B | B | A | B | B |
| 5 | 5 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 | 5 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 2 | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3200 | 3200 | 1300 | 1300 | 1300 | 2300 | 2300 | 2300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3200 | 3200 | 3200 |
| 3900 | 3900 | 2200 | 2200 | 2200 | 3100 | 3100 | 3100 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 | 3900 |
| 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) | 1 (3) |
| 26 | 26 | 24 | 24 | 24 | 29 | 29 | 29 | 36 | 36 | 36 | 33 | 33 | 33 | 36 | 36 | 36 |
| 19 | 19 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 20.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 |
| 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 12 mm

Rolled execution with standard bearing journal T7 - T10
Series 1530



NUT WITH CONNECTING THREAD

■ Series 1530:

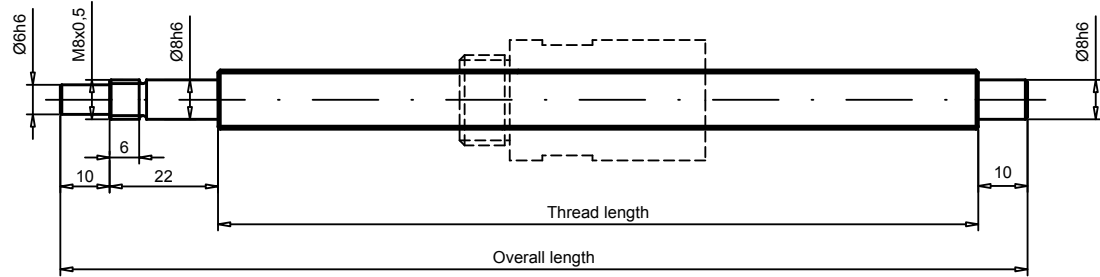
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

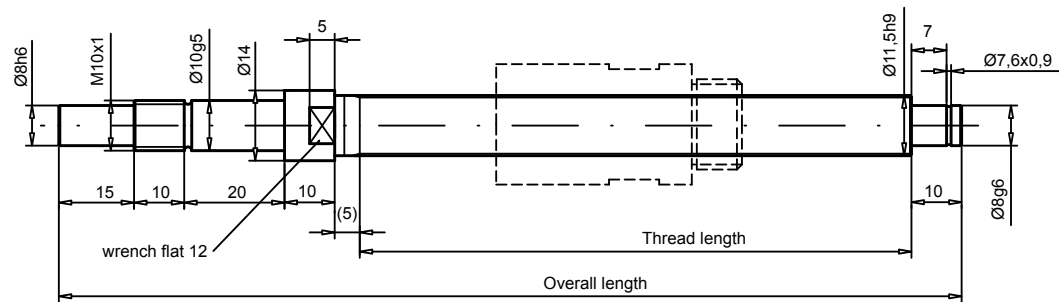
Numbering system see page 52
(Please specify the accuracy class)

| | 1530/1.12.355.397 | 1530/1.12.160.230 | 1530/1.12.510.580 | 1530/2.12.355.397 | 1530/2.12.160.230 | 1530/2.12.510.580 | 1530/3.12.355.397 | 1530/3.12.160.230 | 1530/3.12.510.580 | 1530/4.12.355.397 | 1530/4.12.160.230 | 1530/4.12.510.580 |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 |
| Nominal diameter d_N [mm] | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Nominal stroke [mm] | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 | 300 | 100 | 450 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 1 | 1 | 1 | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2 | 2 | 2 |
| Dynamic load capacity C_a [N] | 900 | 900 | 900 | 1600 | 1600 | 1600 | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 |
| Static load capacity C_{0a} [N] | 1500 | 1500 | 1500 | 2100 | 2100 | 2100 | 2600 | 2600 | 2600 | 2600 | 2600 | 2600 |
| Max. preload [N] | 50 | 50 | 50 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Max. axial load [N] | 40 | 40 | 40 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| Friction torque T_{pr0} [Ncm] | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 | 1.0-2.0 |
| Nut length LD [mm] | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| Nut diameter DD [mm] | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |

■ Shaft style A



■ Shaft style B



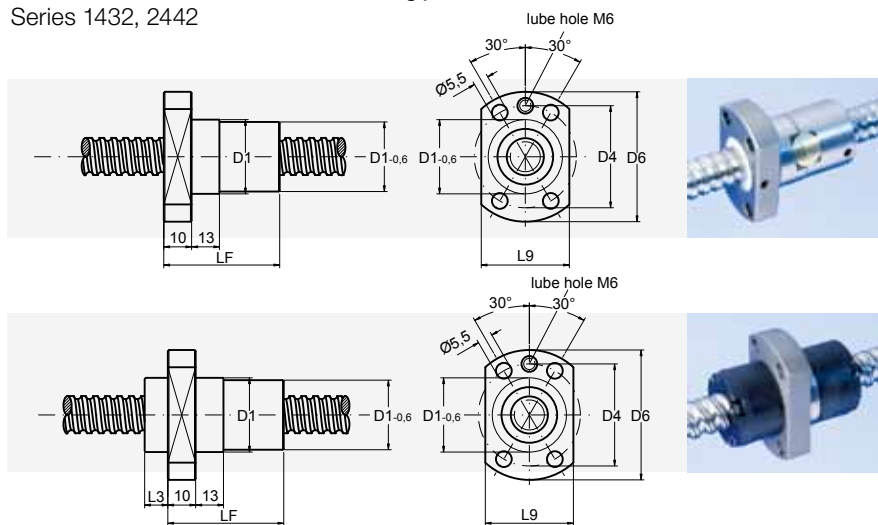
Please follow the advice on page 24/25.

| 1530/5.12.355.397 | 1530/5.12.160.230 | 1530/5.12.510.580 |
|-------------------|-------------------|-------------------|
| A | B | B |
| 5 | 5 | 5 |
| 12 | 12 | 12 |
| 300 | 100 | 450 |
| 2 | 2 | 2 |
| 2 | 2 | 2 |
| 2300 | 2300 | 2300 |
| 2600 | 2600 | 2600 |
| 80 | 80 | 80 |
| 70 | 70 | 70 |
| 1.0-2.0 | 1.0-2.0 | 1.0-2.0 |
| 49 | 49 | 49 |
| 24 | 24 | 24 |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 16 mm

Rolled execution with standard bearing journal T7 - T10
Series 1432, 2442



FLANGE NUT

■ **Series 1432:**
Nut with flange and standard wipers on both ends

FLANGE NUT

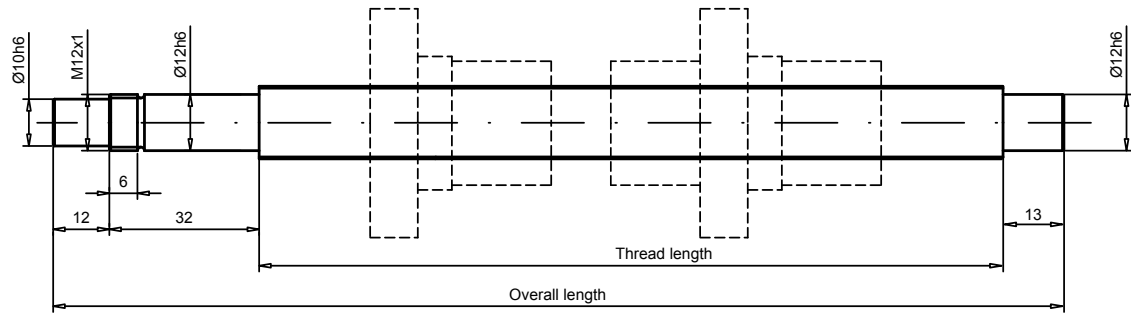
■ **Series 2442:**
Nut with flange and standard wipers on both ends

Technical data

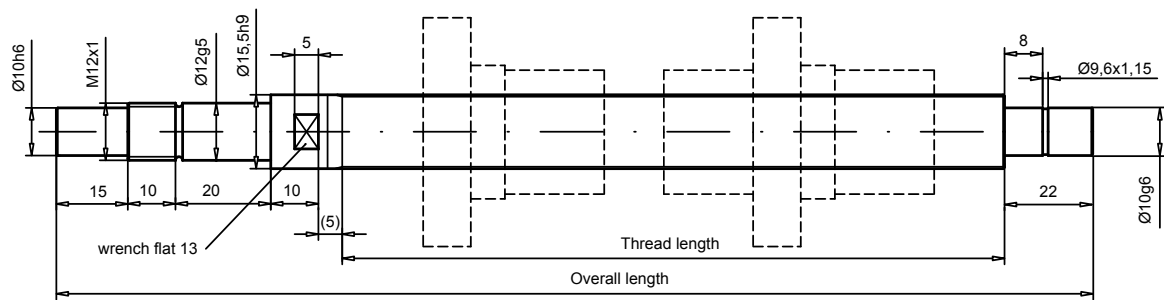
Numbering system see page 52
(Please specify the accuracy class)

| | 1432/2.16.470.527 | 1432/2.16.189.271 | 1432/2.16.689.771 | 1432/4.16.470.527 | 1432/4.16.189.271 | 1432/4.16.689.771 | 1432/5.16.470.527 | 1432/5.16.189.271 | 1432/5.16.689.771 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Nominal stroke [mm] | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3.5 | 3.5 | 3.5 |
| Dynamic load capacity C_a [N] | 2700 | 2700 | 2700 | 8000 | 8000 | 8000 | 9100 | 9100 | 9100 |
| Static load capacity C_{0a} [N] | 4400 | 4400 | 4400 | 10300 | 10300 | 10300 | 10900 | 10900 | 10900 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 |
| Max. friction torque [Ncm] (preloaded nut) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| Nut length LF [mm] | 32 | 32 | 32 | 38 | 38 | 38 | 44 | 44 | 44 |
| Nut diameter D1g6 [mm] | 25 | 25 | 25 | 28 | 28 | 28 | 28 | 28 | 28 |
| L3 [mm] | - | - | - | - | - | - | - | - | - |
| D4 [mm] | 35 | 35 | 35 | 38 | 38 | 38 | 38 | 38 | 38 |
| D6 [mm] | 44 | 44 | 44 | 48 | 48 | 48 | 48 | 48 | 48 |
| L9 [mm] | 29 | 29 | 29 | 31 | 31 | 31 | 31 | 31 | 31 |

■ Shaft style A



■ Shaft style B



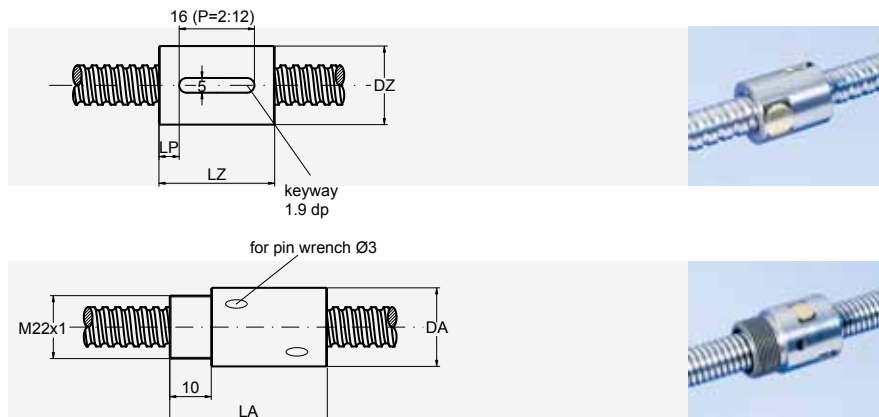
Nuts shown in standard orientation. Select one nut from table. *Please specify the number of circles

| 2442/10.16.470.527* | 2442/10.16.189.271* | 2442/10.16.689.771* | 2442/10.16.470.527* | 2442/10.16.189.271* | 2442/10.16.689.771* | 2442/16.16.470.527 | 2442/16.16.189.271 | 2442/16.16.689.771 | 2442/20.16.470.527 | 2442/20.16.189.271 | 2442/20.16.689.771 | 2442/30.16.470.527 | 2442/30.16.189.271 | 2442/30.16.689.771 |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| A | B | B | A | B | B | A | B | B | A | B | B | A | B | B |
| 10 | 10 | 10 | 10 | 10 | 10 | 16 | 16 | 16 | 20 | 20 | 20 | 30 | 30 | 30 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| 3 + 3 | 3 + 3 | 3 + 3 | 5 + 5 | 5 + 5 | 5 + 5 | 2 + 2 | 2 + 2 | 2 + 2 | 2 + 2 | 2 + 2 | 2 + 2 | 0.5+0.5 | 0.5+0.5 | 0.5+0.5 |
| 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 17700 | 17700 | 17700 | 28300 | 28300 | 28300 | 12100 | 12100 | 12100 | 11700 | 11700 | 11700 | 2100 | 2100 | 2100 |
| 25000 | 25000 | 25000 | 43100 | 43100 | 43100 | 16500 | 16500 | 16500 | 16100 | 16100 | 16100 | 2300 | 2300 | 2300 |
| 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 | 0.04 |
| 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| 32 | 32 | 32 | 52 | 52 | 52 | 31 | 31 | 31 | 38 | 38 | 38 | 26 | 26 | 26 |
| 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 12 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 12 | 12 | 12 |
| 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 16 mm

Rolled execution with standard bearing journal T7 - T10
Series 1234, 1132



CYLINDRICAL NUT

- **Series 1234:**
Cylindrical nut without wipers

NUT WITH CONNECTING THREAD

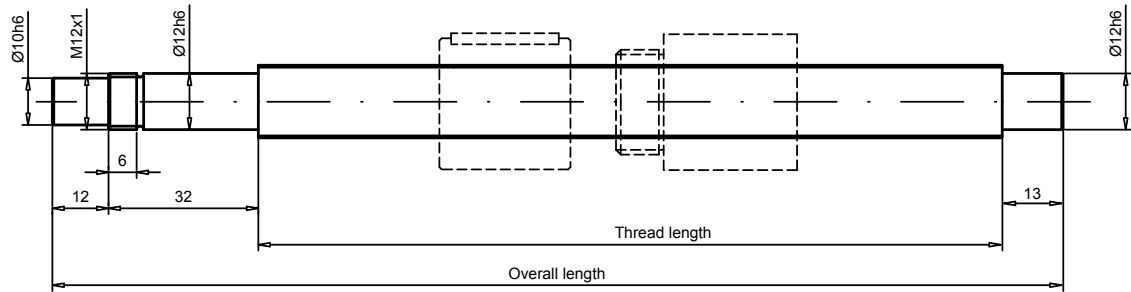
- **Series 1132:**
Nut with connecting thread without wipers

Technical data

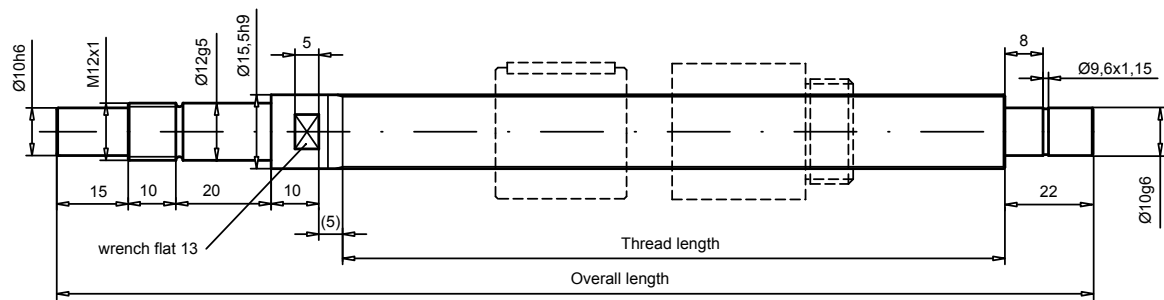
Numbering system see page 52
(Please specify the accuracy class)

| | 1234/2.16.470.527 | 1234/2.16.189.271 | 1234/2.16.689.771 | 1234/4.16.470.527 | 1234/4.16.189.271 | 1234/4.16.689.771 | 1234/5.16.470.527 | 1234/5.16.189.271 | 1234/5.16.689.771 |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Nominal stroke [mm] | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| Ball circles i | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3.5 | 3.5 | 3.5 |
| Dynamic load capacity C_a [N] | 2700 | 2700 | 2700 | 8000 | 8000 | 8000 | 9100 | 9100 | 9100 |
| Static load capacity C_{0a} [N] | 4400 | 4400 | 4400 | 10300 | 10300 | 10300 | 10900 | 10900 | 10900 |
| Max. axial play [mm] with backlash | 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 |
| Max. friction torque [Ncm] (preloaded nut) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| Nut length LZ / LA [mm] | 19 | 19 | 19 | 21 | 21 | 21 | 27 | 27 | 27 |
| Nut diameter DZh6 / DA [mm] | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| LP [mm] | 1.5 | 1.5 | 1.5 | 2.5 | 2.5 | 2.5 | 5.5 | 5.5 | 5.5 |

■ Shaft style A



■ Shaft style B



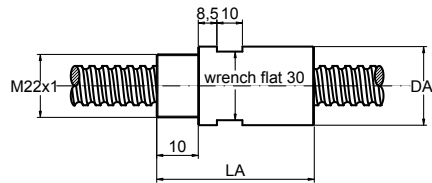
Nuts shown in standard orientation. Select one nut from table.

| 1132/2.16.470.527 | 1132/2.16.189.271 | 1132/2.16.689.771 | 1132/4.16.470.527 | 1132/4.16.189.271 | 1132/4.16.689.771 | 1132/5.16.470.527 | 1132/5.16.189.271 | 1132/5.16.689.771 |
|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A | B | B | A | B | B | A | B | B |
| 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1.5 | 1.5 | 1.5 | 3 | 3 | 3 | 3.5 | 3.5 | 3.5 |
| 2700 | 2700 | 2700 | 8000 | 8000 | 8000 | 9100 | 9100 | 9100 |
| 4400 | 4400 | 4400 | 10300 | 10300 | 10300 | 10900 | 10900 | 10900 |
| 0.02 | 0.02 | 0.02 | 0.03 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 |
| 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) | 1.4 (4) |
| 29 | 29 | 29 | 38 | 38 | 38 | 43 | 43 | 43 |
| 25.5 | 25.5 | 25.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 | 28.5 |
| - | - | - | - | - | - | - | - | - |

Transport ball screws 8 - 16 mm

NOMINAL DIAMETER 16 mm

Rolled execution with standard bearing journal T7 - T10
Series 1530



NUT WITH CONNECTING THREAD

■ Series 1530:

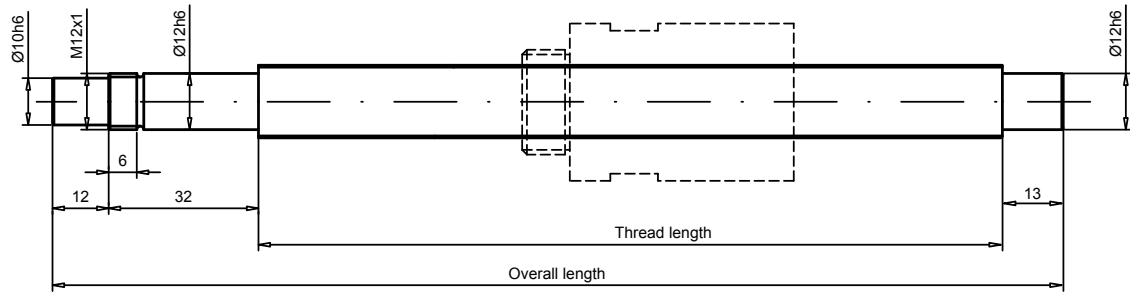
Spring preloaded double nut in housing with connecting thread without wipers

Technical data

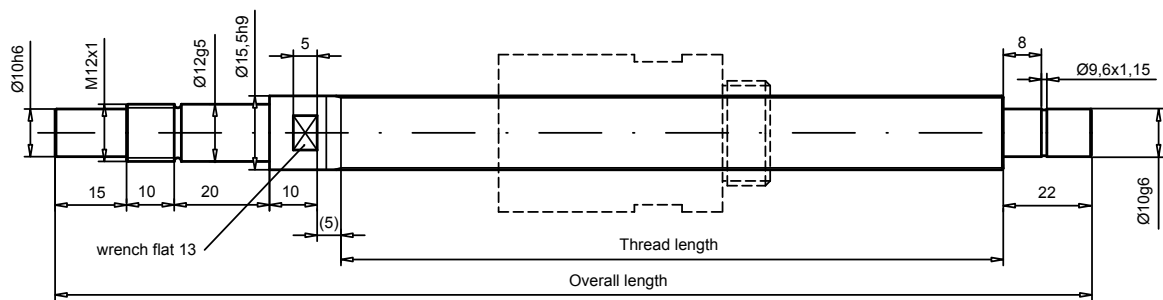
Numbering system see page 52
(Please specify the accuracy class)

| | 1530/2.16.470.527 | 1530/2.16.189.271 | 1530/2.16.689.771 | 1530/4.16.470.527 | 1530/4.16.189.271 | 1530/4.16.689.771 | 1530/5.16.470.527 | 1530/5.16.189.271 | 1530/5.16.689.771 |
|-----------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Shaft style | A | B | B | A | B | B | A | B | B |
| Lead P [mm] | 2 | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 5 |
| Nominal diameter d_N [mm] | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Nominal stroke [mm] | 400 | 100 | 600 | 400 | 100 | 600 | 400 | 100 | 600 |
| Ball circles i | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Ball diameter [mm] | 1.5 | 1.5 | 1.5 | 2 | 2 | 2 | 2.5 | 2.5 | 2.5 |
| Dynamic load capacity C_a [N] | 1900 | 1900 | 1900 | 2700 | 2700 | 2700 | 3500 | 3500 | 3500 |
| Static load capacity C_{0a} [N] | 2900 | 2900 | 2900 | 3600 | 3600 | 3600 | 4300 | 4300 | 4300 |
| Max. preload [N] | 120 | 120 | 120 | 120 | 120 | 120 | 150 | 150 | 150 |
| Max. axial load [N] | 100 | 100 | 100 | 100 | 100 | 100 | 130 | 130 | 130 |
| Friction torque T_{pr0} [Ncm] | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 | 1.5-3.0 |
| Nut length LD [mm] | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| Nut diameter DD [mm] | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |

■ Shaft style A



■ Shaft style B



Please follow the advice on page 24/25.