

## Precision Needle-Bearing Universal Joints similar to DIN 808

The needle-bearing universal joints have almost zero backlash, high accuracy and good turning properties. These special needle-rollers without cage can take high loads even at large operating angles. A special grinding process realizes a perfect

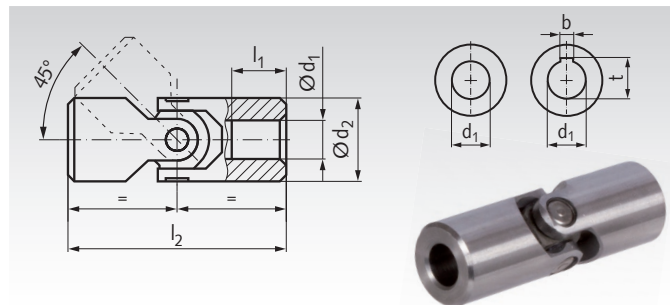
parallelism of the axes and the single parts of the joints - which guarantees an extremely long service life.

### Single, Precision Universal Joints WEN with Needle-Roller Bearings

**Material:** Steel 35SMnPb10, Bearing Parts 18NiCrMo5Pb.

Max. Operating Angle 45°.

Optionally without or with keyway DIN 6885-1, on both sides.



Ordering Details: e.g.: Product No. 631 116 00, Precision, Universal Joint WEN, 8 mm Bores, without Keyway

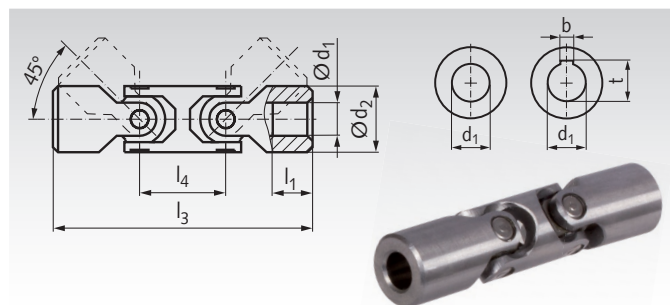
| Product No.<br>without keyway | Product No.<br>with keyway | d <sub>1</sub> <sup>H7</sup><br>mm | d <sub>2</sub><br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | b <sup>JS9</sup><br>mm | t<br>mm | perm. max. Torques at different Speeds |                             |                              |                              | Weight<br>kg |
|-------------------------------|----------------------------|------------------------------------|----------------------|----------------------|----------------------|------------------------|---------|----------------------------------------|-----------------------------|------------------------------|------------------------------|--------------|
|                               |                            |                                    |                      |                      |                      |                        |         | 250 min <sup>-1</sup><br>Nm            | 500 min <sup>-1</sup><br>Nm | 1000 min <sup>-1</sup><br>Nm | 4000 min <sup>-1</sup><br>Nm |              |
| 631 116 00                    | 631 116 00N                | 8                                  | 16                   | 15                   | 52                   | 2                      | 9,0     | 6,9                                    | 6,9                         | 6,9                          | -                            | 0,05         |
| 631 122 00                    | 631 122 00N                | 10                                 | 20                   | 18                   | 62                   | 3                      | 11,4    | 26,4                                   | 20,4                        | 16,8                         | 10,8                         | 0,10         |
| 631 126 00                    | 631 126 00N                | 14                                 | 25                   | 20                   | 74                   | 5                      | 16,3    | 41                                     | 35                          | 29                           | 22                           | 0,18         |
| 631 132 00                    | 631 132 00N                | 16                                 | 32                   | 24                   | 86                   | 5                      | 18,3    | 78                                     | 66                          | 54                           | 38                           | 0,33         |
| 631 137 00                    | 631 137 00N                | 18                                 | 37                   | 17                   | 72                   | 6                      | 20,8    | 90                                     | 73                          | 60                           | 43                           | 0,40         |
| 631 140 00                    | 631 140 00N                | 20                                 | 40                   | 30                   | 108                  | 6                      | 22,8    | 168                                    | 144                         | 120                          | 78                           | 0,71         |
| 631 150 00                    | 631 150 00N                | 25                                 | 50                   | 38                   | 132                  | 8                      | 28,3    | 240                                    | 204                         | 156                          | 102                          | 1,33         |
| 631 163 00                    | 631 163 00N                | 30                                 | 63                   | 45                   | 166                  | 8                      | 33,3    | 360                                    | 324                         | 276                          | 168                          | 2,78         |
| 631 170 00                    | 631 170 00N                | 35                                 | 70                   | 35                   | 140                  | 10                     | 38,3    | 391                                    | 332                         | 284                          | -                            | 2,75         |
| 631 180 00                    | 631 180 00N                | 40                                 | 80                   | 50                   | 180                  | 12                     | 43,3    | 438                                    | 364                         | 306                          | -                            | 4,93         |

### Double, Precision Universal Joints WDN with Needle-Roller Bearings

**Material:** Steel 35SMnPb10, Bearing Parts 18NiCrMo5Pb.

Max. Operating Angle 90°.

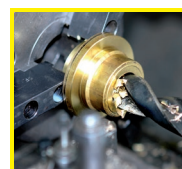
Optionally without or with keyway DIN 6885-1, on both sides.



Ordering Details: e.g.: Product No. 631 620 00, Precision Universal Joint WDN, 10 mm Bores, without Keyway

| Product No.<br>without keyway | Product No.<br>with keyway | d <sub>1</sub> <sup>H7</sup><br>mm | d <sub>2</sub><br>mm | l <sub>1</sub><br>mm | l <sub>3</sub><br>mm | l <sub>4</sub><br>mm | b <sup>JS9</sup><br>mm | t<br>mm | perm. max. Torques at different Speeds |                             |                              |                              | Weight<br>kg |
|-------------------------------|----------------------------|------------------------------------|----------------------|----------------------|----------------------|----------------------|------------------------|---------|----------------------------------------|-----------------------------|------------------------------|------------------------------|--------------|
|                               |                            |                                    |                      |                      |                      |                      |                        |         | 250 min <sup>-1</sup><br>Nm            | 500 min <sup>-1</sup><br>Nm | 1000 min <sup>-1</sup><br>Nm | 4000 min <sup>-1</sup><br>Nm |              |
| 631 620 00                    | 631 620 00N                | 10                                 | 20                   | 18                   | 88                   | 26                   | 3                      | 11,4    | 26,4                                   | 20,4                        | 16,8                         | 10,8                         | 0,14         |
| 631 626 00                    | 631 626 00N                | 14                                 | 25                   | 19                   | 104                  | 33                   | 5                      | 16,3    | 41                                     | 35                          | 29                           | 21,6                         | 0,24         |
| 631 632 00                    | 631 632 00N                | 16                                 | 32                   | 24                   | 125                  | 39                   | 5                      | 18,3    | 78                                     | 66                          | 54                           | 38                           | 0,52         |
| 631 640 00                    | 631 640 00N                | 20                                 | 40                   | 30                   | 156                  | 48                   | 6                      | 22,8    | 168                                    | 144                         | 120                          | 78                           | 1,01         |
| 631 650 00                    | 631 650 00N                | 25                                 | 50                   | 37                   | 188                  | 59                   | 8                      | 28,3    | 240                                    | 204                         | 156                          | 102                          | 1,63         |
| 631 663 00                    | 631 663 00N                | 30                                 | 63                   | 44                   | 238                  | 80                   | 8                      | 33,3    | 360                                    | 324                         | 276                          | 168                          | 3,90         |
| 631 670 00                    | 631 670 00N                | 35                                 | 70                   | 30                   | 212                  | 78                   | 10                     | 38,3    | 391                                    | 332                         | 284                          | -                            | 4,08         |
| 631 680 00                    | 631 680 00N                | 40                                 | 80                   | 48                   | 290                  | 120                  | 12                     | 43,3    | 438                                    | 364                         | 306                          | -                            | 7,96         |

Bellocs  
page 453



**Reworking within  
24h-service possible.  
Custom made parts  
on request.**