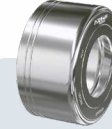
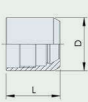
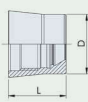
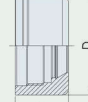
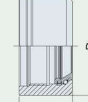
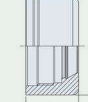
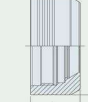


|                             | <br>MPC | <br>MPC CONICAL | <br>DPC | <br>FPC | <br>UPC | <br>HSS |
|-----------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                             |         |                 |         |         |         |         |
| APPLICATION IN ER SIZE      | ER8, ER11, ER16                                                                          | ER16                                                                                             | ER16, ER20, ER25, ER32, ER40                                                             | ER32, ER40                                                                                | ER32                                                                                       | ER16, ER20, ER25, ER32                                                                     |
| CLAMPING DIAMETER BRIDGING  | no                                                                                       | no                                                                                               | no                                                                                       | no                                                                                        | no                                                                                         | - 0,4 mm                                                                                   |
| THREAD                      | Trapezoidal standard                                                                     | Trapezoidal standard                                                                             | Trapezoidal standard                                                                     | Trapezoidal standard                                                                      | Trapezoidal fine                                                                           | Trapezoidal standard                                                                       |
| FRICTION REDUCTION          | Standard coating                                                                         | Low-friction coating                                                                             | Low-friction coating                                                                     | Ball bearings                                                                             | Ball bearings                                                                              | Low-friction coating                                                                       |
| MAINTENANCE-FREE            | ✓                                                                                        | ✓                                                                                                | ✓                                                                                        | ✓                                                                                         | ✓                                                                                          | ✓                                                                                          |
| CONTOUR                     | rotationally symmetrical without grooves                                                 | rotationally symmetrical without grooves                                                         | rotationally symmetrical without grooves                                                 | rotationally symmetrical without grooves                                                  | rotationally symmetrical without grooves                                                   | rotationally symmetrical without grooves                                                   |
| OPERATION                   | Roller bearing wrench                                                                    | Roller bearing wrench                                                                            | Roller bearing wrench                                                                    | Roller bearing wrench                                                                     | Roller bearing wrench                                                                      | Roller bearing wrench                                                                      |
| RECOMMENDED APPLICATIONS:   |                                                                                          |                                                                                                  |                                                                                          |                                                                                           |                                                                                            |                                                                                            |
| HIGH-SPEED                  | recommended                                                                              | recommended                                                                                      | possible                                                                                 | -                                                                                         | -                                                                                          | -                                                                                          |
| ALLROUNDER                  | possible                                                                                 | possible                                                                                         | recommended                                                                              | possible                                                                                  | -                                                                                          | possible                                                                                   |
| HEAVY-DUTY MACHINING        | -                                                                                        | -                                                                                                | -                                                                                        | recommended                                                                               | recommended                                                                                | -                                                                                          |
| TROCHOIDIAL                 | -                                                                                        | -                                                                                                | -                                                                                        | recommended                                                                               | recommended                                                                                | -                                                                                          |
| OUTER DIAMETER FOR ER SIZE: |                                                                                          |                                                                                                  |                                                                                          |                                                                                           |                                                                                            |                                                                                            |
| ER8                         | D=10,0 mm<br>L=11,1 mm                                                                   | -                                                                                                | -                                                                                        | -                                                                                         | -                                                                                          | -                                                                                          |
| ER11                        | D=16,0 mm<br>L=16,2 mm                                                                   | -                                                                                                | -                                                                                        | -                                                                                         | -                                                                                          | -                                                                                          |
| ER16                        | D=22,0 mm<br>L=20,9 mm                                                                   | D=24,0 mm<br>L=23,2 mm                                                                           | D=30,0 mm<br>L=23,4 mm                                                                   | -                                                                                         | -                                                                                          | D=30,0 mm<br>L=21,3 mm *                                                                   |
| ER20                        | -                                                                                        | -                                                                                                | D=32,0 mm<br>L=24,6 mm                                                                   | -                                                                                         | -                                                                                          | D=32,0 mm<br>L=22,8 mm                                                                     |
| ER25                        | -                                                                                        | -                                                                                                | D=40,0 mm<br>L=25,6 mm                                                                   | -                                                                                         | -                                                                                          | D=40,0 mm<br>L=23,8 mm                                                                     |
| ER32                        | -                                                                                        | -                                                                                                | D=50,0 mm<br>L=26,9 mm                                                                   | D=50,0 mm<br>L=26,9 mm                                                                    | D=53,0 mm<br>L=27,0 mm                                                                     | D=50,0 mm<br>L=24,9 mm                                                                     |
| ER40                        | -                                                                                        | -                                                                                                | D=63,0 mm<br>L=31,5 mm                                                                   | D=63,0 mm<br>L=31,5 mm                                                                    | -                                                                                          | -                                                                                          |

\* HSS: "Mini" version: D = 22.0 mm, L = 20.9 mm; "Tapered" version: D = 24.0 mm, L = 23.2 mm