

# Lagereinheit FL

## Bearing unit FL

### Technische Daten/Abmessungen Technical data/dimensions

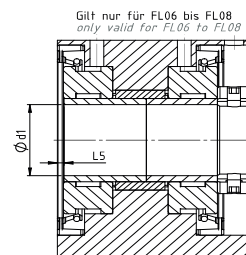
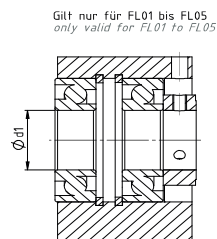
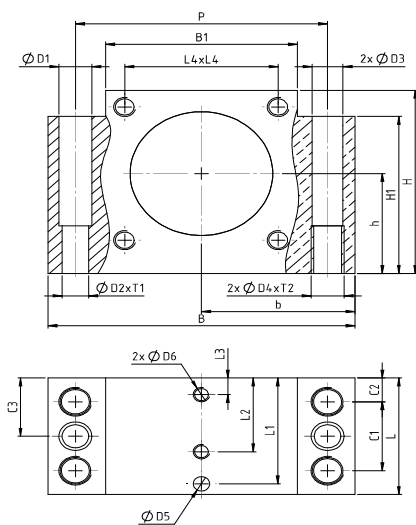
#### Festlagereinheit FL Fixed bearing unit FL

Festlagereinheit FL mit vorgespannten Axialschrägguglagern bis Baugröße FL 05. Ab FL 06 mit integrierten Axial- und Radialnadellagern. Spindel-  
mutter nach DIN 981 wird beigelegt. Spindelendenbearbeitungen siehe nächste Seite  
Gehäusewerkstoff: AlCuPBMg (eloxiert), andere Gehäusematerialien auf Anfrage

Fixed bearing unit FL with pre-loaded axial inclined ball bearings up to size FL 05. From FL 06 with integrated axial and radial needle bearings.

Spindle nut conforming to DIN 981 is enclosed. Screw end machining see next page

Material housing: AlCuPBMg (anodized), other housing materials available on request



| Größe<br>size | Abmessungen<br>dimensions<br>[mm] |                  |     |     |       |                |                |     |                |                |                |                                |                |                |                |                |                |                                |                  |                                  |                |                  |                  |
|---------------|-----------------------------------|------------------|-----|-----|-------|----------------|----------------|-----|----------------|----------------|----------------|--------------------------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|------------------|----------------------------------|----------------|------------------|------------------|
|               | d                                 | L                | B   | H   | h js7 | H <sub>1</sub> | B <sub>1</sub> | P   | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> xL <sub>4</sub> | L <sub>5</sub> | C <sub>1</sub> | C <sub>2</sub> | C <sub>3</sub> | D <sub>1</sub> | D <sub>2</sub> xT <sub>1</sub> | 2xD <sub>3</sub> | 2xD <sub>4</sub> xT <sub>2</sub> | D <sub>5</sub> | 2xD <sub>6</sub> | 4xD <sub>7</sub> |
| FL01          | 10                                | 32 <sup>1)</sup> | 62  | 41  | 22    | 34             | 38             | 50  | -              | -              | -              | 28x28                          | -              | 16             | 8              | 16             | 5              | 3,7x10                         | 5,6              | M6x10                            | -              | -                | M5x10            |
| FL02          | 12                                | 37               | 86  | 58  | 32    | 49             | 52             | 68  | 33             | -              | -              | 39x39                          | -              | 23             | 7              | 18,5           | 10             | 7,7x15                         | 9,3              | M10x15                           | 6              | -                | M5x10            |
| FL03          | 15                                | 42               | 94  | 64  | 34    | 55             | 60             | 77  | 37             | -              | -              | 45x45                          | -              | 25             | 8,5            | 21             | 10             | 7,7x15                         | 9,3              | M10x15                           | 6              | -                | M6x16            |
| FL04          | 20                                | 46               | 108 | 72  | 39    | 61             | 68             | 88  | 39             | -              | -              | 52x52                          | -              | 29             | 8,5            | 23             | 12             | 9,7x22                         | 11,2             | M12x20                           | 6              | -                | M8x16            |
| FL05          | 25                                | 49 <sup>2)</sup> | 112 | 77  | 42    | 66             | 70             | 92  | 44,5           | -              | -              | 56x56                          | -              | 29             | 10             | 24,5           | 12             | 9,7x20                         | 11,2             | M12x20                           | 6              | -                | M8x16            |
| FL06          | 25                                | 71               | 126 | 92  | 50    | 79             | 84             | 105 | 64,5           | 48             | 16,5           | -                              | 5,8            | 44             | 13,5           | 35,5           | 9,7            | -                              | 12,6             | M14x21                           | 7              | M6               | -                |
| FL07          | 30                                | 71               | 126 | 92  | 50    | 79             | 84             | 105 | 64,5           | 46             | 14,5           | -                              | 2,3            | 44             | 13,5           | 35,5           | 9,7            | -                              | 12,6             | M14x21                           | 7              | M6               | -                |
| FL08          | 35                                | 75               | 146 | 112 | 60    | 97             | 104            | 125 | 66,5           | 47             | 15,5           | -                              | 2,3            | 50             | 12,5           | 37,5           | 9,7            | -                              | 12,6             | M14x21                           | 7              | M6               | -                |

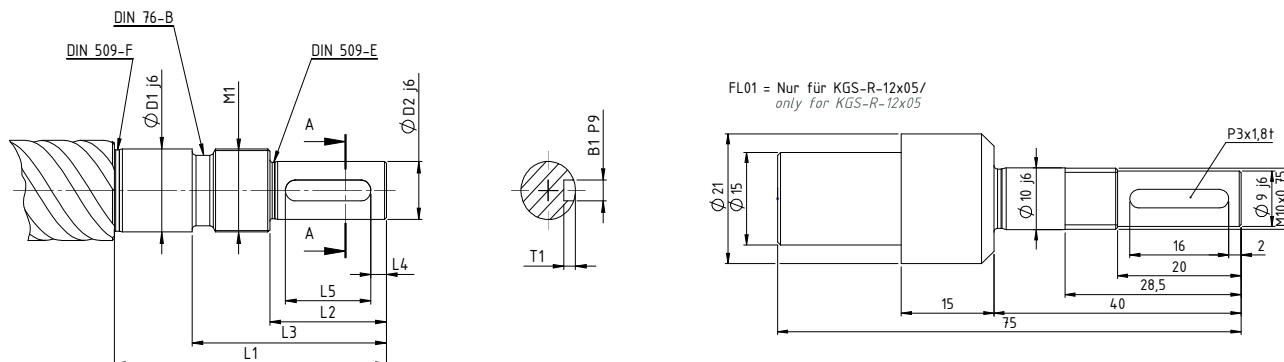
<sup>1)</sup> Spindeladapter steht 20 mm ab screw adapter protrudes 20 mm

<sup>2)</sup> Schräggugellager steht 1 mm ab, Spindelmutter steht 1,5 mm ab angular ball bearing protrudes 1 mm, screw nut protrudes 1,5 mm

| Größe<br>size | TGS/<br>KGS Ø | Lager<br>bearing | C <sub>stat</sub> in [kN] | C <sub>dyn</sub> in [kN] | Anzugsdrehmoment<br>tightening torque<br>[Nm] |
|---------------|---------------|------------------|---------------------------|--------------------------|-----------------------------------------------|
| FL01          | 12            | 3000-B           | 3,25                      | 5,7                      | 2                                             |
| FL02          | 16/18         | 6001             | 2,37                      | 5,4                      | 6                                             |
| FL03          | 20/24         | 7202             | 4,45                      | 8,4                      | 8                                             |
| FL04          | 25/30         | 7204             | 7,8                       | 17,0                     | 15                                            |
| FL05          | 32            | 7205             | 9,0                       | 15,3                     | 18                                            |
| FL06          | 36            | 81105            | 76,0                      | 33,5                     | 25                                            |
| FL07          | 40            | 81207            | 199,0                     | 80,0                     | 32                                            |
| FL08          | 50/60/63      | 81208            | 265,0                     | 107,0                    | 40                                            |

# Endenbearbeitung Festlager, Form FL End machining fixed bearing, form FL

## Technische Daten/Abmessungen *Technical data/dimensions*



| Bezeichnung<br><i>designation</i> | Abmessungen<br><i>dimensions</i><br>[mm]                                      |                               |                |                |                |                |                |                |                                |       |       |
|-----------------------------------|-------------------------------------------------------------------------------|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|-------|-------|
|                                   | D <sub>1</sub> j <sub>6</sub>                                                 | D <sub>2</sub> k <sub>6</sub> | L <sub>1</sub> | L <sub>2</sub> | L <sub>3</sub> | L <sub>4</sub> | L <sub>5</sub> | M <sub>1</sub> | B <sub>1</sub> xT <sub>1</sub> | TGS-Ø | KGS-Ø |
| FL01                              | Abmessungen nach Darstellung <i>dimensions according to illustration FL01</i> |                               |                |                |                |                |                |                |                                |       |       |
| FL02                              | 12                                                                            | 10                            | 55             | 20             | 28,5           | 2,5            | 16             | M12x1          | 3x1,8                          | 18    | 16    |
| FL03                              | 15                                                                            | 12                            | 60             | 25             | 35             | 2,5            | 20             | M15x1          | 4x2,5                          | 24    | 20    |
| FL04                              | 20                                                                            | 17                            | 77             | 32             | 44,5           | 3,5            | 25             | M20x1          | 5x3                            | 30    | 25    |
| FL05                              | 25                                                                            | 20                            | 90             | 40             | 52             | 5              | 30             | M25x1,5        | 6x3,5                          | 36    | 32    |
| FL06                              | 25                                                                            | 20                            | 115            | 50             | 63,5           | 7              | 36             | M25x1,5        | 6x3,5                          | 36    | 32    |
| FL07                              | 30                                                                            | 25                            | 128,5          | 60             | 74             | 7,5            | 45             | M30x1,5        | 8x4                            | 40    | 40    |
| FL08                              | 35                                                                            | 28                            | 152,7          | 80             | 96             | 12             | 56             | M35x1,5        | 8x4                            | 50    | 50    |

