

# AL..F2D2 AL..F4D2

## TYPE

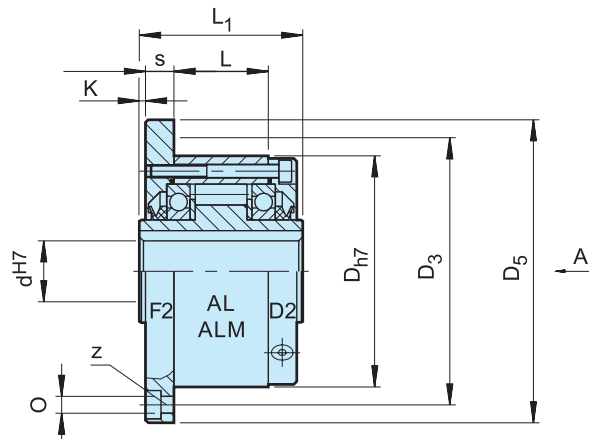


**T**ypes AL..F2D2/F4D2 are roller type freewheels, self-contained, sealed and bearing supported, using two 160.. series bearings. Units are delivered oil lubricated.

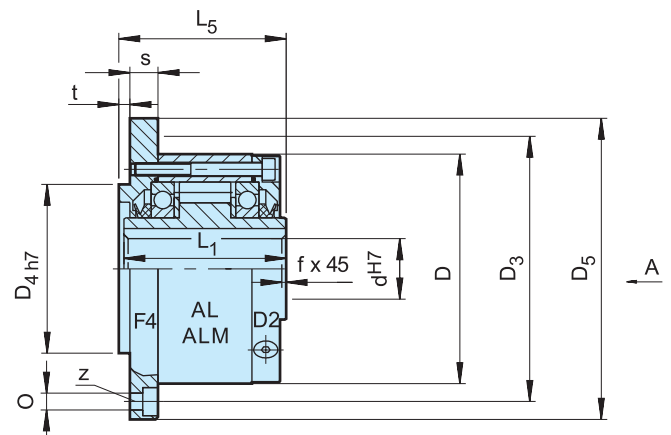
Primarily used as overrunning or indexing clutches, the cover combination is chosen according to the type of drive, as shown overleaf. D2 cover is used to close the unit.

It is equipped with two screws for oil filling, drain and level. The shaft seal is a V-ring type. Cover and seal have been designed to be oil proof with minimum drag torque.

We recommend the unit is supplied assembled. Please specify inner race direction of rotation seen from the D2 flange.



AL..F2D2



AL..F4D2

| Type                   | Size             | Overrunning speeds    |                                        |                                         |                  |               |               |               |     |             |                   |             |               |             |             |             | Weight | Drag torque    |
|------------------------|------------------|-----------------------|----------------------------------------|-----------------------------------------|------------------|---------------|---------------|---------------|-----|-------------|-------------------|-------------|---------------|-------------|-------------|-------------|--------|----------------|
|                        | $d_{h7}$<br>[mm] | $T_{KN}^{1)}$<br>[Nm] | $n_{max}^{2)}$<br>[min <sup>-1</sup> ] | $n_{amax}^{3)}$<br>[min <sup>-1</sup> ] | $D_{h7}$<br>[mm] | $L_1$<br>[mm] | $D_5$<br>[mm] | $D_3$<br>[mm] | $z$ | $O$<br>[mm] | $D_{4h7}$<br>[mm] | $t$<br>[mm] | $L_5$<br>[mm] | $K$<br>[mm] | $s$<br>[mm] | $f$<br>[mm] | [kg]   | $T_R$<br>[Ncm] |
| AL..F2D2<br>AL..F4D2   | 12               | 55                    | 2500                                   | 7200                                    | 62               | 42            | 85            | 72            | 3   | 5,5         | 42                | 3           | 44            | 0,5         | 10,3        | 0,5         | 0,9    | 11             |
|                        | 15               | 125                   | 1900                                   | 6500                                    | 68               | 52            | 92            | 78            | 3   | 5,5         | 47                | 3           | 54            | 0,5         | 10,3        | 0,8         | 1,3    | 15             |
|                        | 20               | 181                   | 1600                                   | 5600                                    | 75               | 57            | 98            | 85            | 4   | 5,5         | 55                | 3           | 59            | 0,5         | 10,8        | 0,8         | 1,7    | 18             |
|                        | 25               | 288                   | 1400                                   | 4500                                    | 90               | 60            | 118           | 104           | 4   | 6,6         | 68                | 3           | 62            | 0,5         | 10,5        | 1           | 2,6    | 36             |
|                        | 30               | 500                   | 1300                                   | 4100                                    | 100              | 68            | 128           | 114           | 6   | 6,6         | 75                | 3           | 70            | 0,5         | 11,3        | 1           | 3,5    | 4              |
|                        | 35               | 725                   | 1100                                   | 3800                                    | 110              | 74            | 138           | 124           | 6   | 6,6         | 80                | 3,5         | 76            | 1           | 11,8        | 1           | 4,5    | 60             |
|                        | 40               | 1025                  | 950                                    | 3400                                    | 125              | 86            | 160           | 142           | 6   | 9           | 90                | 3,5         | 88            | 1           | 13,8        | 1,5         | 6,9    | 84             |
|                        | 45               | 1125                  | 900                                    | 3200                                    | 130              | 86            | 165           | 146           | 8   | 9           | 95                | 3,5         | 88            | 1           | 13,8        | 1,5         | 7,1    | 94             |
|                        | 50               | 2125                  | 850                                    | 2800                                    | 150              | 92            | 185           | 166           | 8   | 9           | 110               | 4           | 94            | 1           | 12,8        | 1,5         | 10,1   | 128            |
|                        | 55               | 2625                  | 720                                    | 2650                                    | 160              | 104           | 204           | 182           | 8   | 11          | 115               | 4           | 106           | 1,5         | 16,8        | 2           | 13,1   | 150            |
|                        | 60               | 3500                  | 680                                    | 2450                                    | 170              | 114           | 214           | 192           | 10  | 11          | 125               | 4           | 116           | 1,5         | 16,3        | 2           | 15,6   | 160            |
|                        | 70               | 5750                  | 580                                    | 2150                                    | 190              | 134           | 234           | 212           | 10  | 11          | 140               | 4           | 136           | 1,5         | 17,8        | 2,5         | 20,4   | 360            |
|                        | 80               | 8500                  | 480                                    | 1900                                    | 210              | 144           | 254           | 232           | 10  | 11          | 160               | 4           | 146,3         | 1,5         | 20,3        | 2,5         | 26,7   | 360            |
|                        | 90               | 14500                 | 380                                    | 1700                                    | 230              | 158           | 278           | 254           | 10  | 14          | 180               | 4,5         | 161           | 1,5         | 20          | 3           | 39     | 680            |
|                        | 100              | 20000                 | 350                                    | 1450                                    | 270              | 182           | 335           | 305           | 10  | 18          | 210               | 5           | 184           | 2,5         | 28          | 3           | 66     | 880            |
|                        | 120              | 31250                 | 250                                    | 1250                                    | 310              | 202           | 375           | 345           | 12  | 18          | 240               | 5           | 204           | 2,5         | 28,5        | 3           | 91     | 1200           |
|                        | 150              | 70000                 | 180                                    | 980                                     | 400              | 246           | 485           | 445           | 12  | 22          | 310               | 5           | 249           | 2,5         | 31          | 4           | 186    | 1350           |
|                        | 200              | 175000                | 120                                    | 750                                     | 520              | 326           | 625           | 565           | 18  | 26          | 400               | 5           | 328           | 3           | 40          | 5           | 425    | 4200           |
|                        | 250              | 287500                | 100                                    | 620                                     | 610              | 396           | 740           | 680           | 20  | 33          | 480               | 5           | 398           | 3           | 45          | 5           | 680    | 6500           |
| ALM..F2D2<br>ALM..F4D2 | 25               | 388                   | 1100                                   | 2800                                    | 90               | 60            | 118           | 104           | 4   | 6,6         | 68                | 3           | 62            | 0,5         | 10,5        | 1           | 2,7    | 41             |
|                        | 30               | 588                   | 1000                                   | 2500                                    | 100              | 68            | 128           | 114           | 6   | 6,6         | 75                | 3           | 70            | 0,5         | 11,3        | 1           | 3,65   | 64             |
|                        | 35               | 838                   | 900                                    | 2400                                    | 110              | 74            | 138           | 124           | 6   | 6,6         | 80                | 3,5         | 76            | 1           | 11,8        | 1           | 4,7    | 76             |

## NOTES

1)  $T_{max} = 2 \times T_{KN}$   
 » Refer to Selection page 10 to 13

2) Inner race overruns

3) Outer race overruns  
 Keyway to DIN 6885.1

When ordering, please specify direction of rotation seen from arrow

A": „R" Inner race overruns in clockwise direction, „L" Inner race overruns in counterclockwise

» Refer to mounting and maintenance instructions page 16 to 19

## MOUNTING EXAMPLE

