



### TYPE



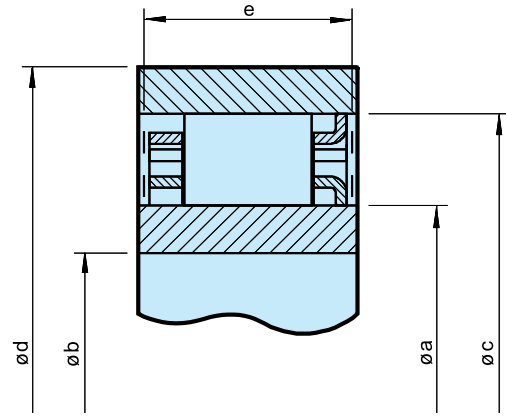
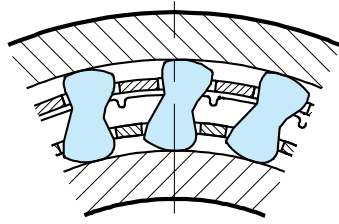
Type DC is a sprag type freewheel cage without inner or outer races. It must be installed in a design providing races, bearing support for axial and radial loads, lubrication and sealing. The DC type version-N accepts all types of lubricants currently used in the power transmission equipment.

The sprag space tolerance must not be exceeded. Inner and outer races must both have a minimum plain width “e”, without any recess, to ensure the freewheel functions correctly as shown on following pages.

Alternatively, races can be made in case hardened steel shafts, or housings, to the specification below. Surface hardness of the finished part should be HRC 60 to 62, for a depth of 0,6 mm minimum.

Core hardness to be HRC35 to 45. Surface roughness not to exceed 22CLA. Maximum taper between races: 0,007 mm for 25 mm width.

DC



DC

| Size            |                                       | Overrunning speeds                                      |                                                         |                                          |                    | Sprag space |                          |                           |                           | Number of clips | Number of sprags | Weight |
|-----------------|---------------------------------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------------|--------------------|-------------|--------------------------|---------------------------|---------------------------|-----------------|------------------|--------|
|                 | T <sub>KN</sub> <sup>1)</sup><br>[Nm] | n <sub>imax</sub> <sup>2)</sup><br>[min <sup>-1</sup> ] | n <sub>amax</sub> <sup>3)</sup><br>[min <sup>-1</sup> ] | Øa <sup>+</sup> 0,008<br>- 0,005<br>[mm] | Øc ± 0,013<br>[mm] | [mm]        | e <sub>min</sub><br>[mm] | Ød <sub>min</sub><br>[mm] | Øb <sub>max</sub><br>[mm] |                 |                  | [kg]   |
| DC2222G-N       | 63                                    | 8600                                                    | 4300                                                    | 22,225                                   | 38,885             | 8,33 ±0,075 | 10,0                     | 50                        | 15                        | —               | 12               | 0,030  |
| DC2776-N        | 119                                   | 6900                                                    | 3400                                                    | 27,762                                   | 44,422             | 8,33 ±0,075 | 13,5                     | 58                        | 18                        | —               | 14               | 0,055  |
| DC3034-N        | 124                                   | 6300                                                    | 3100                                                    | 30,340                                   | 47,000             | 8,33 ±0,075 | 13,5                     | 62                        | 20                        | —               | 14               | 0,060  |
| DC3175(3C)-N    | 159                                   | 6000                                                    | 3000                                                    | 31,750                                   | 48,410             | 8,33 ±0,075 | 13,5                     | 63                        | 21                        | 3               | 16               | 0,060  |
| DC3809A-N       | 275                                   | 5000                                                    | 2500                                                    | 38,092                                   | 54,752             | 8,33 ±0,075 | 16,0                     | 71                        | 25                        | —               | 18               | 0,085  |
| DC4127(3C)-N    | 224                                   | 4600                                                    | 2300                                                    | 41,275                                   | 57,935             | 8,33 ±0,075 | 13,5                     | 75                        | 27                        | 3               | 18               | 0,090  |
| DC4445A-N       | 363                                   | 4300                                                    | 2100                                                    | 44,450                                   | 61,110             | 8,33 ±0,075 | 16,0                     | 79                        | 29                        | —               | 20               | 0,095  |
| DC4972(4C)-N    | 306                                   | 3800                                                    | 1900                                                    | 49,721                                   | 66,381             | 8,33 ±0,075 | 13,5                     | 86                        | 33                        | 4               | 22               | 0,100  |
| DC5476A-N       | 525                                   | 3500                                                    | 1700                                                    | 54,765                                   | 71,425             | 8,33 ±0,075 | 16,0                     | 92                        | 36                        | —               | 24               | 0,110  |
| DC5476A(4C)-N   | 525                                   | 3500                                                    | 1700                                                    | 54,765                                   | 71,425             | 8,33 ±0,075 | 16,0                     | 92                        | 36                        | 4               | 24               | 0,130  |
| DC5476B(4C)-N   | 769                                   | 3500                                                    | 1700                                                    | 54,765                                   | 71,425             | 8,33 ±0,075 | 21,0                     | 92                        | 36                        | 4               | 24               | 0,180  |
| DC5476C(4C)-N   | 990                                   | 3500                                                    | 1700                                                    | 54,765                                   | 71,425             | 8,33 ±0,075 | 25,4                     | 92                        | 36                        | 4               | 24               | 0,200  |
| DC5776A-N       | 604                                   | 3300                                                    | 1600                                                    | 57,760                                   | 74,420             | 8,33 ±0,075 | 16,0                     | 98                        | 38                        | —               | 26               | 0,110  |
| DC6334B-N       | 806                                   | 3000                                                    | 1500                                                    | 63,340                                   | 80,000             | 8,33 ±0,075 | 21,0                     | 104                       | 42                        | —               | 26               | 0,175  |
| DC7221(5C)-N    | 675                                   | 2600                                                    | 1300                                                    | 72,217                                   | 88,877             | 8,33 ±0,075 | 13,5                     | 115                       | 48                        | 5               | 30               | 0,140  |
| DC7221B-N       | 1279                                  | 2600                                                    | 1300                                                    | 72,217                                   | 88,877             | 8,33 ±0,075 | 21,0                     | 115                       | 48                        | —               | 30               | 0,185  |
| DC7221B(5C)-N   | 1279                                  | 2600                                                    | 1300                                                    | 72,217                                   | 88,877             | 8,33 ±0,075 | 21,0                     | 115                       | 48                        | 5               | 30               | 0,210  |
| DC7969C(5C)-N   | 2038                                  | 2400                                                    | 1200                                                    | 79,698                                   | 96,358             | 8,33 ±0,075 | 25,4                     | 124                       | 53                        | 5               | 34               | 0,280  |
| DC8334C-N       | 2055                                  | 2300                                                    | 1100                                                    | 83,340                                   | 100,000            | 8,33 ±0,075 | 25,4                     | 132                       | 55                        | —               | 34               | 0,270  |
| DC8729A-N       | 1250                                  | 2200                                                    | 1100                                                    | 87,290                                   | 103,960            | 8,33 ±0,075 | 16,0                     | 134                       | 58                        | —               | 34               | 0,165  |
| DC10323A(5C)*-N | 1612                                  | 1800                                                    | 900                                                     | 103,231**                                | 119,891            | 8,33 ±0,075 | 16,0                     | 155                       | 68                        | 5               | 40               | 0,205  |
| DC12334C*-N     | 4800                                  | 1500                                                    | 750                                                     | 123,340**                                | 140,000            | 8,33 ±0,075 | 25,4                     | 184                       | 80                        | —               | 50               | 0,400  |
| DC12388CD(11C)  | 4875                                  | 1500                                                    | 750                                                     | 123,881**                                | 142,880            | 9,50 ±0,1   | 25,4                     | 186                       | 80                        | 11              | 44               | 0,400  |

## NOTES

1)  $T_{max} = 2 \times T_{KN}$   
» Refer to Selection page 7 to 11

2) Inner race overruns

3) Outer race overruns

\*) The inner cage centering flange is on the opposite side

\*\*) Extension of tolerance to ± 0,013 permissible

Other dimensions on request

» Refer to mounting and maintenance instructions page 12 to 13

## MOUNTING EXAMPLES

