Self-Contained Freewheels

CEUS

Type CEUS from the CECON product group is a roller type one way clutch bearing supported and self-contained in a cast iron housing. Standard lubrication is oil.

This type is designed for dual or standby drives on large equipment requiring high power at high speeds such as industrial fans, pumps, and turbines.

The housing provides a cooling surface, a large oil volume and maximum safety for equipment running continuously without supervision.

Units of this type must be connected with the driver and driven machine using flexible couplings. Integrated forced lubrication allows hydrodynamic contact free operation during overrunning. The oil is continuously filtered through internal strainers. Detailed catalogue over the full CECON range on request. The given overrunning speeds are valid for a maximum ambient temperature of 40°C.
Self-Contained Freewheels

**CEUS**

1) Torque selection procedure. Nominal torque of the application:

\[ T_{\text{appl}} = \frac{9550 \times P (\text{kW})}{n (\text{min}^{-1})} \]

The CECON unit catalogue torque will be:

\[ T_{\text{KN}} = T_{\text{appl}} \times 1.5 \]

The dimensions are metric conversion of imperial ones

Rotation seen from shaft „DR“: „R“ Shaft „DR“ drives in clockwise direction, „L“ Shaft „DR“ drives in counterclockwise direction

Note: The constant overrunning function must be performed by the driven shaft „DN“

» Refer to mounting and maintenance instructions page 12 to 13

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**MOUNTING EXAMPLE**

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**NOTES**

1. Torque selection procedure. Nominal torque of the application:

\[ T_{\text{appl}} (\text{Nm}) = \frac{9550 \times P (\text{kW})}{n (\text{min}^{-1})} \]

The CECON unit catalogue torque will be:

\[ T_{\text{KN}} \geq T_{\text{appl}} \times 1.5 \]

The dimensions are metric conversion of imperial ones

Rotation seen from shaft „DR“: „R“ Shaft „DR“ drives in clockwise direction, „L“ Shaft „DR“ drives in counterclockwise direction

Note: The constant overrunning function must be performed by the driven shaft „DN“

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**Type** | **Size** | **Overrunning Speed shaft DN** | **Weight**
---|---|---|---
**CEUS** | | | |
5C | 680 | 6000 | 215,90 | 120,65 | 29,48 | 81,03 | 139,70 | 161,80 | 81,03 | 139,70 | 161,80 | 95,25 | 100
1M | 1355 | 5600 | 249,17 | 146,05 | 60,96 | 95,25 | 161,80 | 184,15 | 95,25 | 161,80 | 184,15 | 117,35 | 146
2M | 2710 | 4200 | 295,15 | 174,50 | 647,7 | 15,75 x 7,87 | 39,69 | 76,20 | 139,70 | 161,80 | 76,20 | 139,70 | 200
4M | 5425 | 3600 | 325,37 | 196,85 | 698,5 | 15,75 x 7,87 | 69,85 | 114,30 | 139,70 | 161,80 | 69,85 | 114,30 | 255
8M | 10845 | 3000 | 374,63 | 219,95 | 742,95 | 22,10 x 11,18 | 84,14 | 152,40 | 231,65 | 260,35 | 84,14 | 152,40 | 354
12M | 16270 | 2500 | 433,32 | 244,35 | 793,75 | 25,40 x 12,70 | 98,48 | 171,45 | 273,05 | 301,50 | 98,48 | 171,45 | 545
18M | 24405 | 2300 | 481,08 | 285,75 | 857,25 | 25,40 x 12,70 | 109,54 | 190,50 | 301,50 | 333,35 | 109,54 | 190,50 | 726
30M | 40675 | 2000 | 533,40 | 323,85 | 952,5 | 31,75 x 15,75 | 128,59 | 215,90 | 374,63 | 444,50 | 128,59 | 215,90 | 10160
42M | 56945 | 1700 | 580,90 | 368,30 | 1028,7 | 35,75 x 19,05 | 149,23 | 238,60 | 425,45 | 50,80 | 149,23 | 238,60 | 12700
60M | 81350 | 1400 | 628,65 | 406,40 | 1104,9 | 44,45 x 22,10 | 177,80 | 286,70 | 482,60 | 50,80 | 177,80 | 286,70 | 15200

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