# FDCR

Double Nut with Flange (DIN 69051).

Standard nuts are with oil-seals.

Best combination for smooth and backlash-free operation with high rigidity.

A double nut must always be used pre-loaded and have to be assembled on the ball screw spindle by Rollco. Standard preload is P2, see “Preload and clearance” in Technical information.

Lead accuracy G5 or better is required for proper function. For best performance, a ground spindle is recommended.

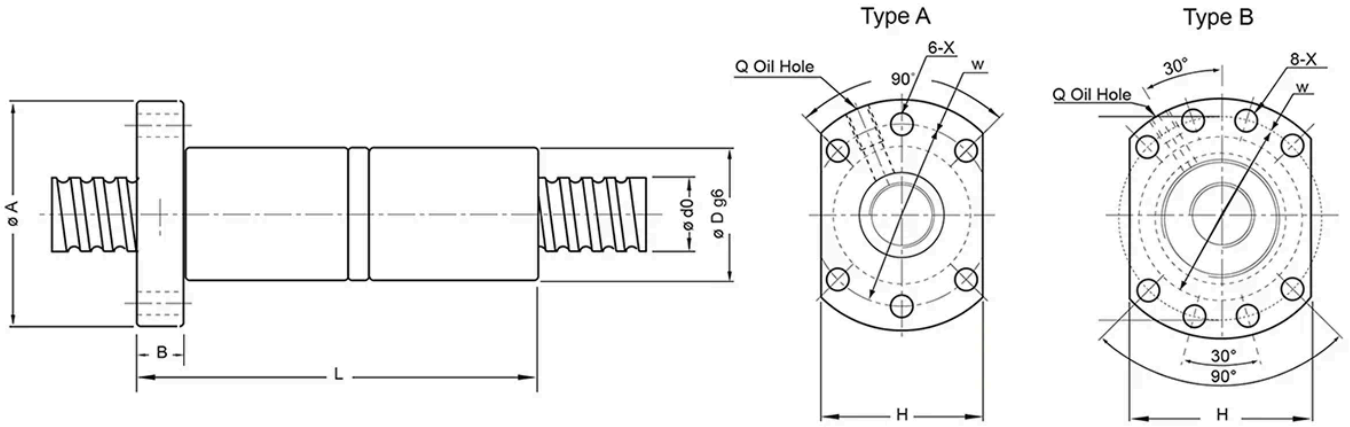
All dimensions in mm.

**Material:** Ball screw: S55C (according to standard JIS G4051) / Ball nut: SCM415H (according to standard JIS G4053)




Every care has been taken to ensure the accuracy of the information in this document, but we take no liability for any errors or omissions. We reserve the right to make changes without prior notice.

# General Data

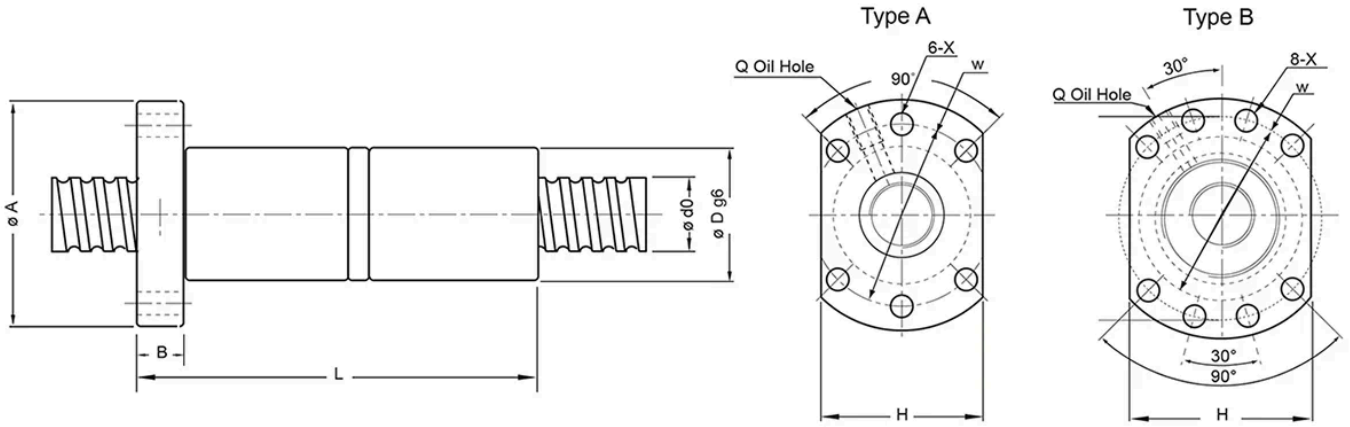



| Designation | Compatible with | Type | Dynamic Load Ratings Ca (N) | Static Load Ratings C0a (N) | Ball diameter |
|---|---|---|---|---|---|
| **FDCR1605** | BKN12 / FKN12 / BFN12 / FFN12 | A | 10291 | 11223 | 3.175 |
| **FDCR2005** | BKN15 / FKN15 / BFN15 / FFN15 | A | 14833 | 19571 | 3.175 |
| **FDCR2505** | BKN20 / FKN20 / BFN20 / FFN20 | A | 16716 | 25320 | 3.175 |
| **FDCR2510** | BKN17 / FKN17 / BFN17 / FFN17 | A | 28263 | 36248 | 4.762 |
| **FDCR3205** | BKN25 / FKN25 / WBK25DF / BFN25 / FFN25 | A | 18874 | 33383 | 3.175 |
| **FDCR3210** | BKN25 / FKN25 / WBK25DF / BFN25 / FFN25 | A | 47422 | 76861 | 6.35 |
| **FDCR4005** | BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30 | B | 21013 | 42595 | 3.175 |
| **FDCR4010** | BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30 | B | 52964 | 98826 | 6.35 |
| **FDCR5010** | BKN40 / WBK40DF / WBK40DFF / BFN40 | B | 58203 | 120791 | 6.35 |

| Designation | Turns x circuits |
|---|---|
| **FDCR1605** | 1 x 3 |
| **FDCR2005** | 1 x 4 |
| **FDCR2505** | 1 x 4 |
| **FDCR2510** | 1 x 4 |
| **FDCR3205** | 1 x 4 |
| **FDCR3210** | 1 x 4 |
| **FDCR4005** | 1 x 4 |
| **FDCR4010** | 1 x 4 |
| **FDCR5010** | 1 x 4 |


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# Dimensions




| Designation | A | B | D | H | L | Q | W | X | d0 x Lead |
|---|---|---|---|---|---|---|---|---|---|
| **FDCR1605** | 48 | 10 | 28 | 40 | 80 | M6 | 38 | 5.5 | 16 x 5 |
| **FDCR2005** | 58 | 12 | 36 | 44 | 92 | M6 | 47 | 6.6 | 20 x 5 |
| **FDCR2505** | 62 | 12 | 40 | 48 | 92 | M6 | 51 | 6.6 | 25 x 5 |
| **FDCR2510** | 62 | 12 | 40 | 48 | 153 | M6 | 51 | 6.6 | 25 x 10 |
| **FDCR3205** | 80 | 12 | 50 | 62 | 92 | M6 | 65 | 9 | 32 x 5 |
| **FDCR3210** | 80 | 16 | 50 | 62 | 160 | M6 | 65 | 9 | 32 x 10 |
| **FDCR4005** | 93 | 15 | 63 | 70 | 96 | M8 | 78 | 9 | 40 x 5 |
| **FDCR4010** | 93 | 18 | 63 | 70 | 162 | M8 | 78 | 9 | 40 x 10 |
| **FDCR5010** | 110 | 16 | 75 | 85 | 162 | M8 | 93 | 11 | 50 x 10 |


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