



Precision Lock Nuts · Ground Nuts · Hydraulic Nuts



Beijing Yuchen Ruixiang Precision Machinery Co., Ltd.

Beijing Yuchen Ruixiang Precision Machinery Co., Ltd. was founded in 2009 and is located in Fengtai District, Beijing. Since its establishment, the company has always focused on the production and research and development of high-quality precision lock nuts, grinding nuts, hydraulic nuts, grease-driven nuts, non-standard custom nuts, foundation bolts, guide rail pressure blocks and other products. It is a comprehensive enterprise integrating research and development, production and sales.

The company has two production bases in Baoding, Hebei and Wuhu, Anhui respectively. The self-built factory building covers an area of 15,000 square meters, with more than 130 employees and more than 100 sets of modern production equipment, including CNC lathes, machining centers, internal and external cylindrical grinders, vertical lathes, special equipment and thread testing equipment. In the past decade or so, the company has continuously promoted the innovation of technical processes, continuously improved the control of quality processes, and fully ensured the effective operation of the quality system.

Its products are widely used in many fields such as high-end CNC machine tools, precision spindles, torque motor turntables, photovoltaic equipment, compressors, wind power generation, high-speed rail EMUs, shipbuilding heavy industry, aerospace, robots, and automated equipment.

The company adheres to the tenet of high quality, quick response, excellent service and high cost performance, and is committed to meeting the diverse needs of different customer groups and providing customers with solid and reliable technical service support.



This sample was compiled extremely carefully and all data have been checked. However, our company does not assume any responsibility for incorrect or incomplete data.

The company reserves the right to change the product data without prior notice.

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Note: The commonly used specification material in nut products is 42CrMo, and a small number of models are S45C, users who have special needs for materials please indicate in the order contract.

# Precision lock nuts

## A variety of different designs

The locking device for axial positioning of precision bearings on the shaft requires extremely high manufacturing accuracy, and conventional lock nuts are not fully applicable to precision bearings. To meet the high standard requirements of different industry applications, Beijing Yuchen has developed and produced a variety of precision lock nuts.

List two commonly used precision lock nuts with locking pins: YCF type and YCKMT type. With these two types of lock nuts, bearings and other components can be easily and reliably axially positioned on the shaft and accuracy can be ensured. The uniqueness of these two types of nuts lies in the three uniformly distributed copper column locking pins on the circumference. These pins are pressed onto the shaft thread by hexagon socket head cap screws to prevent the nut from loosening.

Their design, installation and disassembly are relatively simple, and no additional locking washers or grooves are required in the shaft. The angle formed by the locking pins and the hexagon socket head cap screws and the axis is the same as the threaded surface. The ends of the locking pins and the threads are processed in the same process and have the same precision thread profile. The nut is locked in place by the friction between the locking pins and the shaft thread and the adhesion friction between the threaded surfaces, so it does not bear the axial load acting on the nut. When the nut is locked, the threaded surface does not relieve the axial load and the nut does not deform (Figure 1). Another advantage of the YCF type and YCKMT type is that they are adjustable. The three uniformly distributed locking pins can precisely position the nut to make the nut perpendicular to the shaft. The locking pins can also be used to adjust the inaccuracies or deviations of other components installed on the shaft (Figure 2).

The YCF type and YCKMT type nuts can still maintain precision after being correctly disassembled and assembled many times.

(Figure 3) shows the correct installation of the YCF type lock nut using a wrench.

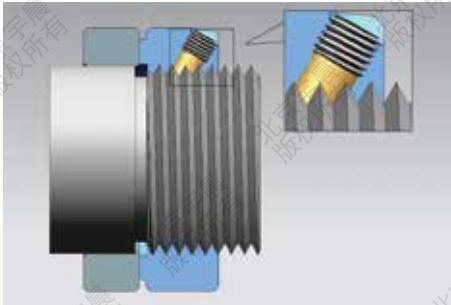


Fig. 1: The locking pin and hex screw are at the same angle to the axis as the thread face

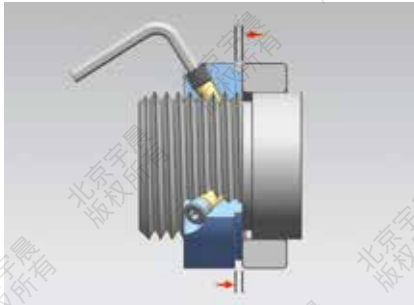
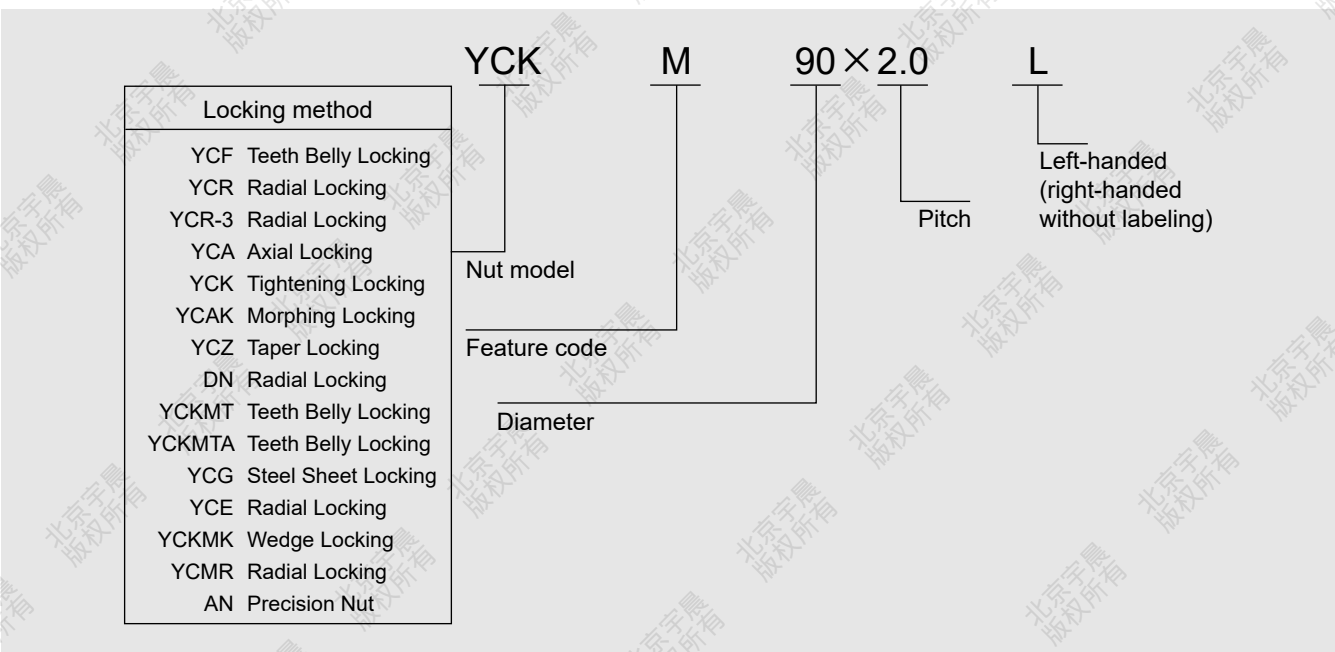


Fig. 2: Adjustable thread end face for inaccuracies or deviations from other components on the shaft



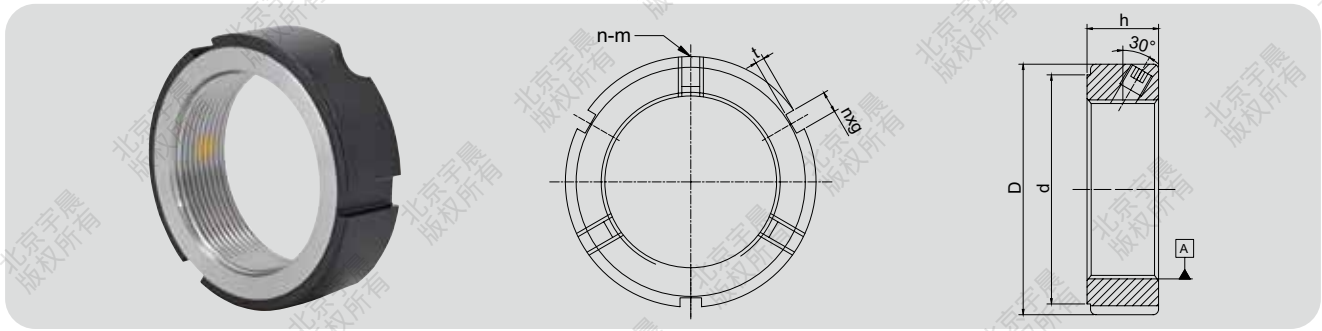
Fig. 3: Proper installation of the YCF type lock nut using a wrench

## Order examples and order codes



| Thread | Axial Load Static kN | Loosening Torque Nm |     |     |      |
|--------|----------------------|---------------------|-----|-----|------|
|        |                      | YCF                 | YCR | YCA | YCK  |
| M8     | 30                   | —                   | 17  | —   | —    |
| M10    | 35                   | —                   | 18  | —   | —    |
| M12    | 40                   | —                   | 19  | —   | 57   |
| M15    | 60                   | —                   | 20  | —   | 72   |
| M17    | 80                   | 27                  | 21  | 25  | 90   |
| M20    | 90                   | 28                  | 24  | 26  | 99   |
| M25    | 130                  | 30                  | 26  | 28  | 101  |
| M30    | 160                  | 32                  | 28  | 29  | 102  |
| M35    | 190                  | 39                  | 34  | 37  | 109  |
| M40    | 210                  | 46                  | 36  | 42  | 110  |
| M45    | 240                  | 61                  | 56  | 59  | 127  |
| M50    | 300                  | 70                  | 63  | 66  | 137  |
| M55    | 340                  | 88                  | 68  | 74  | 166  |
| M60    | 380                  | 98                  | 96  | 81  | 205  |
| M65    | 460                  | 127                 | 112 | 88  | 254  |
| M70    | 490                  | 147                 | 137 | 96  | 313  |
| M75    | 520                  | 152                 | 145 | 103 | 382  |
| M80    | 620                  | 156                 | 149 | 113 | 460  |
| M85    | 650                  | 176                 | 168 | 128 | 549  |
| M90    | 680                  | 186                 | 178 | 137 | 656  |
| M95    | 710                  | 201                 | 193 | 152 | 745  |
| M100   | 740                  | 220                 | 210 | 172 | 833  |
| M105   | 770                  | 236                 | 215 | 186 | 957  |
| M110   | 800                  | 252                 | 230 | 206 | 1127 |
| M115   | 830                  | 268                 | 250 | 221 | 1242 |
| M120   | 860                  | 279                 | 264 | 235 | 1323 |
| M125   | 890                  | 289                 | 274 | 250 | 1389 |
| M130   | 920                  | 313                 | 294 | 265 | 1421 |
| M135   | 950                  | 352                 | 328 | 304 | 1576 |
| M140   | 980                  | 392                 | 372 | 324 | 1610 |
| M145   | 1010                 | 436                 | 402 | 353 | 1680 |
| M150   | 1040                 | 480                 | 421 | 392 | 1710 |
| M155   | 1070                 | 519                 | 460 | 422 | 1850 |
| M160   | 1100                 | 563                 | 509 | 461 | 1931 |
| M165   | 1130                 | 598                 | 529 | 495 | 1989 |
| M170   | 1160                 | 647                 | 558 | 520 | 2052 |
| M180   | 1220                 | 686                 | 558 | 559 | 2214 |
| M190   | 1280                 | 735                 | 627 | 598 | 2596 |
| M200   | 1340                 | 794                 | 666 | 637 | 2731 |

## Tooth Belly Lock Nut YCF Series



The YCF type lock nut is designed with the locking copper at a 30° angle to the thread and does not bear the axial load acting on the thread. When the nut is locked, the threaded surface does not relieve the axial load and the nut does not deform. The three equally spaced locking coppers can be used to adjust the deviations of other components installed on the shaft. Since the locking copper does not deform, the YCF type nut can still maintain precision after being correctly disassembled and assembled many times.

Material: 42CrMo Hardness: HRC 28°-32° Thread Precision: ISO 4H  
End Face Runout: M12-M200 0.002-0.005mm M210-M450 0.005-0.008mm

| Thread      | D  | h  | d  | n×g | t   | n-m  | Max.Nm |
|-------------|----|----|----|-----|-----|------|--------|
| YCF M12×1.5 | 30 | 14 | 25 | 3×4 | 2   | 3-M6 | 8      |
| YCF M14×1.5 | 30 | 14 | 25 | 3×4 | 2   | 3-M6 | 8      |
| YCF M15×1.0 | 30 | 14 | 25 | 3×4 | 2   | 3-M6 | 8      |
| YCF M16×1.5 | 30 | 14 | 25 | 3×4 | 2   | 3-M6 | 8      |
| YCF M17×1.0 | 32 | 16 | 27 | 3×5 | 2   | 3-M6 | 8      |
| YCF M18×1.5 | 32 | 16 | 27 | 3×5 | 2   | 3-M6 | 8      |
| YCF M20×1.0 | 38 | 16 | 33 | 3×5 | 2   | 3-M6 | 8      |
| YCF M20×1.5 | 38 | 16 | 33 | 3×5 | 2   | 3-M6 | 8      |
| YCF M22×1.5 | 38 | 16 | 33 | 3×5 | 2   | 3-M6 | 8      |
| YCF M24×1.5 | 38 | 18 | 33 | 3×5 | 2   | 3-M6 | 8      |
| YCF M24×1.5 | 40 | 18 | 35 | 3×5 | 2   | 3-M8 | 18     |
| YCF M25×1.5 | 38 | 18 | 33 | 3×5 | 2   | 3-M6 | 8      |
| YCF M25×1.5 | 40 | 18 | 35 | 3×5 | 2   | 3-M8 | 18     |
| YCF M27×1.5 | 40 | 18 | 35 | 3×5 | 2   | 3-M6 | 8      |
| YCF M28×1.5 | 42 | 18 | 37 | 3×5 | 2   | 3-M6 | 8      |
| YCF M30×1.5 | 45 | 18 | 40 | 3×5 | 2   | 3-M6 | 8      |
| YCF M32×1.5 | 47 | 18 | 42 | 3×5 | 2   | 3-M6 | 8      |
| YCF M33×1.5 | 50 | 18 | 45 | 3×5 | 2   | 3-M6 | 8      |
| YCF M35×1.5 | 52 | 18 | 46 | 3×6 | 2.5 | 3-M8 | 18     |
| YCF M36×1.5 | 52 | 18 | 46 | 3×6 | 2.5 | 3-M8 | 18     |
| YCF M39×1.5 | 58 | 20 | 52 | 3×6 | 2.5 | 3-M8 | 18     |
| YCF M40×1.5 | 58 | 20 | 52 | 3×6 | 2.5 | 3-M8 | 18     |
| YCF M42×1.5 | 62 | 20 | 56 | 3×6 | 2.5 | 3-M8 | 18     |
| YCF M45×1.5 | 65 | 20 | 59 | 3×6 | 2.5 | 3-M8 | 18     |
| YCF M48×1.5 | 70 | 20 | 64 | 3×6 | 2.5 | 3-M8 | 18     |

YCF M10 model optional YCKMT M10 model

## Tooth Belly Lock Nut YCF Series

| Thread       | D   | h  | d   | n×g  | t   | n-m   | Max.Nm |
|--------------|-----|----|-----|------|-----|-------|--------|
| YCF M50×1.5  | 70  | 20 | 64  | 3×6  | 2.5 | 3-M8  | 18     |
| YCF M52×1.5  | 73  | 22 | 66  | 3×8  | 3   | 3-M8  | 18     |
| YCF M55×1.5  | 75  | 22 | 68  | 3×8  | 3   | 3-M8  | 18     |
| YCF M55×2.0  | 75  | 22 | 68  | 3×8  | 3   | 3-M8  | 18     |
| YCF M56×1.5  | 75  | 22 | 68  | 3×8  | 3   | 3-M8  | 18     |
| YCF M56×2.0  | 75  | 22 | 68  | 3×8  | 3   | 3-M8  | 18     |
| YCF M58×1.5  | 80  | 22 | 73  | 3×8  | 3   | 3-M8  | 18     |
| YCF M60×2.0  | 80  | 22 | 73  | 3×8  | 3   | 3-M8  | 18     |
| YCF M64×1.5  | 85  | 22 | 78  | 3×8  | 3   | 3-M8  | 18     |
| YCF M64×2.0  | 85  | 22 | 78  | 3×8  | 3   | 3-M8  | 18     |
| YCF M65×2.0  | 85  | 22 | 78  | 3×8  | 3   | 3-M8  | 18     |
| YCF M68×2.0  | 92  | 24 | 84  | 3×8  | 3.5 | 3-M8  | 18     |
| YCF M70×2.0  | 92  | 24 | 84  | 3×8  | 3.5 | 3-M8  | 18     |
| YCF M72×2.0  | 94  | 24 | 86  | 3×8  | 3.5 | 3-M8  | 18     |
| YCF M75×2.0  | 98  | 24 | 90  | 3×8  | 3.5 | 3-M8  | 18     |
| YCF M76×2.0  | 98  | 24 | 90  | 3×8  | 3.5 | 3-M8  | 18     |
| YCF M80×2.0  | 105 | 24 | 96  | 3×8  | 3.5 | 3-M8  | 18     |
| YCF M85×2.0  | 110 | 24 | 102 | 6×8  | 3.5 | 3-M8  | 18     |
| YCF M90×2.0  | 120 | 26 | 108 | 6×10 | 4   | 3-M8  | 18     |
| YCF M95×2.0  | 125 | 26 | 113 | 6×10 | 4   | 3-M8  | 18     |
| YCF M100×2.0 | 130 | 26 | 118 | 6×10 | 4   | 3-M8  | 18     |
| YCF M105×2.0 | 140 | 28 | 125 | 6×10 | 4   | 3-M10 | 35     |
| YCF M110×2.0 | 145 | 28 | 132 | 6×10 | 4   | 3-M10 | 35     |
| YCF M115×2.0 | 150 | 28 | 137 | 6×10 | 4   | 3-M10 | 35     |
| YCF M120×2.0 | 155 | 30 | 142 | 6×12 | 5   | 3-M10 | 35     |
| YCF M125×2.0 | 160 | 30 | 147 | 6×12 | 5   | 3-M10 | 35     |
| YCF M130×2.0 | 165 | 30 | 152 | 6×12 | 5   | 3-M10 | 35     |
| YCF M135×2.0 | 175 | 32 | 160 | 6×12 | 5   | 3-M10 | 35     |
| YCF M140×2.0 | 178 | 32 | 165 | 6×12 | 5   | 3-M10 | 35     |
| YCF M145×2.0 | 190 | 32 | 175 | 6×12 | 5   | 3-M10 | 35     |
| YCF M150×2.0 | 195 | 32 | 180 | 6×12 | 5   | 3-M10 | 35     |
| YCF M155×3.0 | 200 | 34 | 180 | 6×14 | 6   | 3-M10 | 35     |
| YCF M160×3.0 | 210 | 34 | 190 | 6×14 | 6   | 3-M10 | 35     |
| YCF M165×3.0 | 210 | 34 | 190 | 6×14 | 6   | 3-M10 | 35     |
| YCF M170×3.0 | 220 | 34 | 200 | 6×14 | 6   | 3-M10 | 35     |
| YCF M180×3.0 | 230 | 36 | 205 | 6×16 | 7   | 3-M12 | 60     |

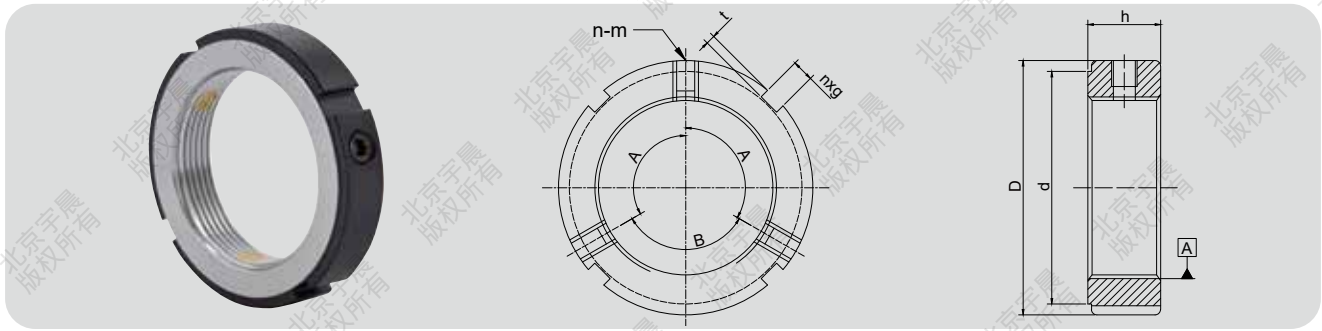
## Tooth Belly Lock Nut YCF Series

| Thread       | D   | h  | d   | n×g  | t  | n-m   | Max.Nm |
|--------------|-----|----|-----|------|----|-------|--------|
| YCF M190×3.0 | 240 | 36 | 215 | 6×16 | 7  | 3-M12 | 60     |
| YCF M195×3.0 | 240 | 36 | 215 | 6×16 | 7  | 3-M12 | 60     |
| YCF M200×3.0 | 250 | 38 | 225 | 6×16 | 7  | 3-M12 | 60     |
| YCF M210×3.0 | 260 | 38 | 245 | 6×16 | 7  | 3-M12 | 60     |
| YCF M220×3.0 | 270 | 38 | 255 | 6×16 | 7  | 3-M12 | 60     |
| YCF M230×3.0 | 280 | 40 | 258 | 6×16 | 9  | 3-M12 | 60     |
| YCF M240×3.0 | 290 | 40 | 268 | 6×16 | 9  | 3-M12 | 60     |
| YCF M250×3.0 | 300 | 40 | 278 | 6×16 | 9  | 3-M12 | 60     |
| YCF M260×4.0 | 310 | 40 | 288 | 6×20 | 10 | 3-M14 | 100    |
| YCF M270×4.0 | 320 | 40 | 298 | 6×20 | 10 | 3-M14 | 100    |
| YCF M280×4.0 | 330 | 40 | 308 | 6×20 | 10 | 3-M14 | 100    |
| YCF M290×4.0 | 340 | 42 | 315 | 6×22 | 11 | 3-M14 | 100    |
| YCF M300×4.0 | 350 | 42 | 325 | 6×22 | 11 | 3-M14 | 100    |
| YCF M310×4.0 | 365 | 42 | 340 | 6×24 | 12 | 3-M14 | 100    |
| YCF M320×4.0 | 375 | 42 | 350 | 6×24 | 12 | 3-M14 | 100    |
| YCF M330×4.0 | 385 | 42 | 360 | 6×24 | 12 | 3-M14 | 100    |
| YCF M340×4.0 | 395 | 42 | 370 | 6×24 | 12 | 3-M14 | 100    |
| YCF M350×4.0 | 405 | 42 | 380 | 6×24 | 12 | 3-M14 | 100    |
| YCF M360×4.0 | 415 | 44 | 388 | 6×26 | 13 | 3-M16 | 150    |
| YCF M370×4.0 | 425 | 44 | 398 | 6×26 | 13 | 3-M16 | 150    |
| YCF M380×4.0 | 435 | 44 | 408 | 6×26 | 13 | 3-M16 | 150    |
| YCF M390×4.0 | 445 | 44 | 418 | 6×26 | 13 | 3-M16 | 150    |
| YCF M400×4.0 | 465 | 44 | 438 | 6×30 | 13 | 3-M16 | 150    |
| YCF M410×4.0 | 475 | 46 | 444 | 6×30 | 15 | 3-M16 | 150    |
| YCF M420×4.0 | 485 | 46 | 454 | 6×30 | 15 | 3-M16 | 150    |
| YCF M430×4.0 | 495 | 46 | 464 | 6×30 | 15 | 3-M16 | 150    |
| YCF M440×4.0 | 505 | 46 | 474 | 6×30 | 15 | 3-M16 | 150    |
| YCF M450×4.0 | 515 | 46 | 484 | 6×30 | 15 | 3-M16 | 150    |

Non-standard nuts can be customized

1Nm=10.2kgf.cm=0.73lb.ft

## Radial Lock Nut With Four Slots YCR Series



The locking method of the YCR type lock nut is radial locking. It is relatively thin and is suitable for the installation environment where there are certain limitations on the nut thickness space and other products cannot be used.

Material: 42CrMo Hardness: HRC 28° - 32° Thread Precision: ISO 4H

End Face Runout: M5 - M200 0.002 - 0.005mm M210 - M450 0.005 - 0.008mm

| Thread       | D  | h  | n×g | t   | d  | n-m  | Max.Nm |
|--------------|----|----|-----|-----|----|------|--------|
| YCR M5×0.5   | 16 | 8  | 4×3 | 2   | 11 | 2-M4 | 3.5    |
| YCR M6×0.5   | 16 | 8  | 4×3 | 2   | 11 | 2-M4 | 3.5    |
| YCR M8×0.75  | 16 | 8  | 4×3 | 2   | 11 | 2-M4 | 3.5    |
| YCR M8×1.0   | 16 | 8  | 4×3 | 2   | 11 | 2-M4 | 3.5    |
| YCR M9×0.75  | 18 | 8  | 4×3 | 2   | 13 | 2-M4 | 3.5    |
| YCR M10×0.75 | 18 | 8  | 4×3 | 2   | 13 | 2-M4 | 3.5    |
| YCR M10×1.0  | 18 | 8  | 4×3 | 2   | 13 | 2-M4 | 3.5    |
| YCR M12×1.0  | 20 | 8  | 4×3 | 2   | 16 | 2-M4 | 3.5    |
| YCR M12×1.0  | 22 | 8  | 4×3 | 2   | 18 | 2-M4 | 3.5    |
| YCR M12×1.25 | 20 | 8  | 4×3 | 2   | 16 | 2-M4 | 3.5    |
| YCR M12×1.25 | 22 | 8  | 4×3 | 2   | 18 | 2-M4 | 3.5    |
| YCR M14×1.5  | 25 | 8  | 4×3 | 2   | 20 | 2-M4 | 3.5    |
| YCR M15×1.0  | 25 | 8  | 4×3 | 2   | 20 | 2-M4 | 3.5    |
| YCR M16×1.5  | 28 | 10 | 4×4 | 2   | 23 | 2-M5 | 4.5    |
| YCR M17×1.0  | 28 | 10 | 4×4 | 2   | 23 | 2-M5 | 4.5    |
| YCR M18×1.5  | 30 | 10 | 4×4 | 2   | 25 | 2-M5 | 4.5    |
| YCR M20×1.0  | 32 | 10 | 4×4 | 2   | 27 | 3-M5 | 4.5    |
| YCR M20×1.5  | 32 | 10 | 4×4 | 2   | 27 | 3-M5 | 4.5    |
| YCR M22×1.5  | 35 | 10 | 4×4 | 2   | 30 | 3-M5 | 4.5    |
| YCR M24×1.5  | 38 | 12 | 4×5 | 2   | 33 | 3-M6 | 8      |
| YCR M25×1.5  | 38 | 12 | 4×5 | 2   | 33 | 3-M6 | 8      |
| YCR M27×1.5  | 42 | 12 | 4×5 | 2   | 37 | 3-M6 | 8      |
| YCR M30×1.0  | 45 | 12 | 4×5 | 2   | 40 | 3-M6 | 8      |
| YCR M30×1.5  | 45 | 12 | 4×5 | 2   | 40 | 3-M6 | 8      |
| YCR M33×1.5  | 52 | 12 | 4×6 | 2.5 | 46 | 3-M6 | 8      |
| YCR M35×1.5  | 52 | 12 | 4×6 | 2.5 | 46 | 3-M6 | 8      |
| YCR M36×1.5  | 52 | 12 | 4×6 | 2.5 | 46 | 3-M6 | 8      |

## Radial Lock Nut With Four Slots YCR Series

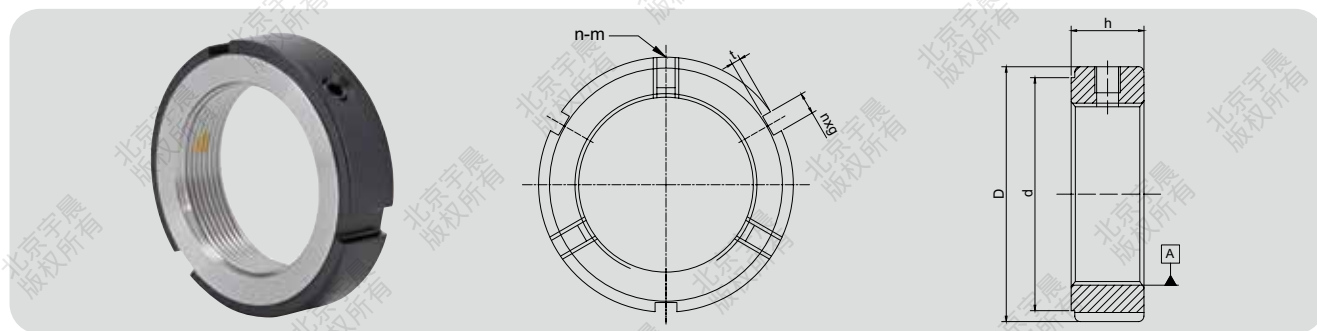
| Thread       | D   | h  | n×g  | t   | d   | n-m   | Max.Nm |
|--------------|-----|----|------|-----|-----|-------|--------|
| YCR M38×1.5  | 58  | 14 | 4×6  | 2.5 | 52  | 3-M6  | 8      |
| YCR M39×1.5  | 58  | 14 | 4×6  | 2.5 | 52  | 3-M6  | 8      |
| YCR M40×1.5  | 58  | 14 | 4×6  | 2.5 | 52  | 3-M6  | 8      |
| YCR M42×1.5  | 62  | 14 | 4×6  | 2.5 | 56  | 3-M6  | 8      |
| YCR M45×1.5  | 65  | 14 | 4×6  | 2.5 | 59  | 3-M6  | 8      |
| YCR M48×1.5  | 68  | 14 | 4×6  | 2.5 | 62  | 3-M6  | 8      |
| YCR M50×1.5  | 70  | 14 | 4×6  | 2.5 | 64  | 3-M8  | 18     |
| YCR M50×2.0  | 70  | 14 | 4×6  | 2.5 | 64  | 3-M8  | 18     |
| YCR M52×1.5  | 73  | 16 | 4×8  | 3   | 66  | 3-M8  | 18     |
| YCR M55×2.0  | 75  | 16 | 4×8  | 3   | 68  | 3-M8  | 18     |
| YCR M56×2.0  | 75  | 16 | 4×8  | 3   | 68  | 3-M8  | 18     |
| YCR M58×1.5  | 80  | 16 | 4×8  | 3   | 73  | 3-M8  | 18     |
| YCR M60×1.5  | 80  | 16 | 4×8  | 3   | 73  | 3-M8  | 18     |
| YCR M60×2.0  | 80  | 16 | 4×8  | 3   | 73  | 3-M8  | 18     |
| YCR M62×2.0  | 83  | 16 | 4×8  | 3   | 76  | 3-M8  | 18     |
| YCR M64×2.0  | 85  | 16 | 4×8  | 3   | 78  | 3-M8  | 18     |
| YCR M65×2.0  | 85  | 16 | 4×8  | 3   | 78  | 3-M8  | 18     |
| YCR M68×2.0  | 92  | 18 | 4×8  | 3.5 | 84  | 3-M8  | 18     |
| YCR M70×2.0  | 92  | 18 | 4×8  | 3.5 | 84  | 3-M8  | 18     |
| YCR M72×2.0  | 94  | 18 | 4×8  | 3.5 | 86  | 3-M8  | 18     |
| YCR M75×2.0  | 98  | 18 | 4×8  | 3.5 | 90  | 3-M8  | 18     |
| YCR M76×2.0  | 100 | 18 | 4×8  | 3.5 | 92  | 3-M8  | 18     |
| YCR M80×2.0  | 105 | 18 | 4×8  | 3.5 | 96  | 3-M8  | 18     |
| YCR M85×2.0  | 110 | 18 | 4×8  | 3.5 | 102 | 3-M8  | 18     |
| YCR M90×2.0  | 120 | 20 | 4×10 | 4   | 108 | 3-M8  | 18     |
| YCR M95×2.0  | 125 | 20 | 4×10 | 4   | 113 | 3-M8  | 18     |
| YCR M100×2.0 | 130 | 20 | 4×10 | 4   | 118 | 3-M8  | 18     |
| YCR M105×2.0 | 140 | 22 | 4×12 | 5   | 125 | 3-M10 | 35     |
| YCR M110×2.0 | 145 | 22 | 4×12 | 5   | 132 | 3-M10 | 35     |
| YCR M115×2.0 | 150 | 22 | 4×12 | 5   | 137 | 3-M10 | 35     |
| YCR M120×2.0 | 155 | 24 | 4×12 | 5   | 142 | 3-M10 | 35     |
| YCR M125×2.0 | 160 | 24 | 4×12 | 5   | 147 | 3-M10 | 35     |
| YCR M130×2.0 | 165 | 24 | 4×12 | 5   | 152 | 3-M10 | 35     |
| YCR M135×2.0 | 175 | 26 | 4×14 | 6   | 160 | 3-M10 | 35     |
| YCR M140×2.0 | 178 | 26 | 4×14 | 6   | 165 | 3-M12 | 60     |
| YCR M145×2.0 | 190 | 26 | 4×14 | 6   | 175 | 3-M12 | 60     |
| YCR M150×2.0 | 195 | 26 | 4×14 | 6   | 180 | 3-M12 | 60     |
| YCR M155×3.0 | 200 | 28 | 4×16 | 7   | 180 | 3-M12 | 60     |

## Radial Lock Nut With Four Slots YCR Series

| Thread       | D   | h  | n×g  | t  | d   | n-m   | Max.Nm |
|--------------|-----|----|------|----|-----|-------|--------|
| YCR M160×3.0 | 210 | 28 | 4×16 | 7  | 190 | 3-M12 | 60     |
| YCR M165×3.0 | 210 | 28 | 4×16 | 7  | 190 | 3-M12 | 60     |
| YCR M170×3.0 | 220 | 28 | 4×16 | 7  | 200 | 3-M12 | 60     |
| YCR M180×3.0 | 230 | 30 | 4×18 | 8  | 205 | 3-M12 | 60     |
| YCR M190×3.0 | 240 | 30 | 4×18 | 8  | 215 | 3-M12 | 60     |
| YCR M195×3.0 | 240 | 30 | 4×18 | 8  | 215 | 3-M12 | 60     |
| YCR M200×3.0 | 250 | 32 | 4×18 | 8  | 225 | 3-M12 | 60     |
| YCR M210×3.0 | 260 | 32 | 4×18 | 8  | 240 | 3-M12 | 60     |
| YCR M220×3.0 | 270 | 32 | 4×18 | 8  | 250 | 3-M12 | 60     |
| YCR M230×3.0 | 280 | 34 | 4×20 | 9  | 258 | 3-M12 | 60     |
| YCR M240×3.0 | 290 | 34 | 4×20 | 9  | 268 | 3-M12 | 60     |
| YCR M250×3.0 | 300 | 34 | 4×20 | 9  | 278 | 3-M12 | 60     |
| YCR M260×4.0 | 310 | 34 | 4×22 | 10 | 288 | 3-M14 | 100    |
| YCR M270×4.0 | 320 | 34 | 4×22 | 10 | 298 | 3-M14 | 100    |
| YCR M280×4.0 | 330 | 34 | 6×22 | 10 | 308 | 3-M14 | 100    |
| YCR M290×4.0 | 340 | 36 | 6×24 | 11 | 315 | 3-M14 | 100    |
| YCR M300×4.0 | 350 | 36 | 6×24 | 11 | 325 | 3-M14 | 100    |
| YCR M310×4.0 | 365 | 36 | 6×24 | 12 | 340 | 3-M14 | 100    |
| YCR M320×4.0 | 375 | 36 | 6×24 | 12 | 350 | 3-M14 | 100    |
| YCR M330×4.0 | 385 | 36 | 6×24 | 12 | 360 | 3-M14 | 100    |
| YCR M340×4.0 | 395 | 36 | 6×24 | 12 | 370 | 3-M14 | 100    |
| YCR M350×4.0 | 405 | 36 | 6×24 | 12 | 380 | 3-M14 | 100    |
| YCR M360×4.0 | 415 | 38 | 6×26 | 13 | 388 | 3-M16 | 150    |
| YCR M370×4.0 | 425 | 38 | 6×26 | 13 | 398 | 3-M16 | 150    |
| YCR M380×4.0 | 435 | 38 | 6×26 | 13 | 408 | 3-M16 | 150    |
| YCR M390×4.0 | 445 | 38 | 6×26 | 13 | 418 | 3-M16 | 150    |
| YCR M400×4.0 | 465 | 38 | 6×30 | 13 | 438 | 3-M16 | 150    |
| YCR M410×4.0 | 475 | 40 | 6×30 | 15 | 444 | 3-M16 | 150    |
| YCR M420×4.0 | 485 | 40 | 6×30 | 15 | 454 | 3-M16 | 150    |
| YCR M430×4.0 | 495 | 40 | 6×30 | 15 | 464 | 3-M16 | 150    |
| YCR M440×4.0 | 505 | 40 | 6×30 | 15 | 474 | 3-M16 | 150    |
| YCR M450×4.0 | 515 | 40 | 6×30 | 15 | 484 | 3-M16 | 150    |

Non-standard nuts can be customized

## Radial Lock Nut With Three Slots YCR-3 Series



The YCR-3 type three-slot series is locked radially and has a relatively thin thickness. It is suitable for installation environments where there are certain limitations on the nut thickness space and other products cannot be used.

Material: 42CrMo Hardness: HRC 28° - 32° Thread Precision: ISO 4H

End Face Runout: M6 - M200 0.002 - 0.005mm M210 - M270 0.005 - 0.008mm

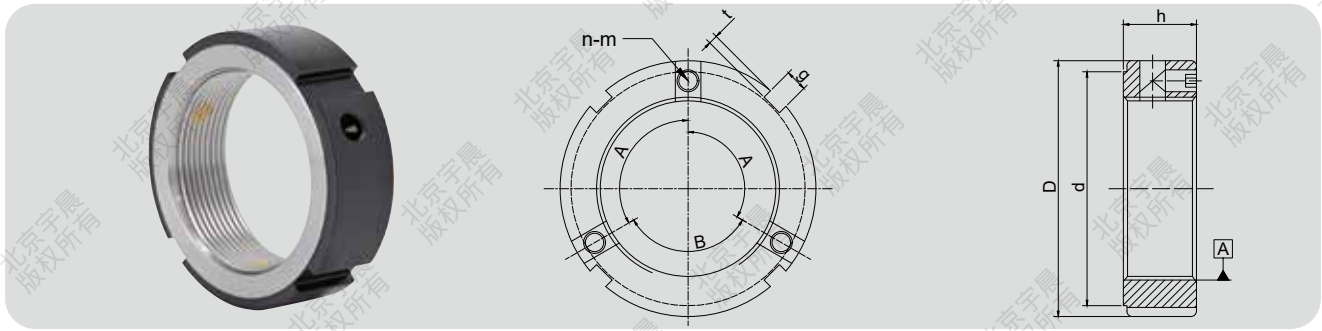
| Thread         | D  | h  | n×g | t   | d  | n-m  | Max.Nm |
|----------------|----|----|-----|-----|----|------|--------|
| YCR-3 M6×0.5   | 16 | 8  | 3×3 | 2   | 11 | 3-M4 | 3.5    |
| YCR-3 M8×0.75  | 16 | 8  | 3×3 | 2   | 11 | 3-M4 | 3.5    |
| YCR-3 M8×1.0   | 16 | 8  | 3×3 | 2   | 11 | 3-M4 | 3.5    |
| YCR-3 M10×0.75 | 18 | 8  | 3×3 | 2   | 13 | 3-M4 | 3.5    |
| YCR-3 M10×1.0  | 18 | 8  | 3×3 | 2   | 13 | 3-M4 | 3.5    |
| YCR-3 M12×1.0  | 20 | 8  | 3×3 | 2   | 16 | 3-M4 | 3.5    |
| YCR-3 M12×1.0  | 22 | 8  | 3×3 | 2   | 18 | 3-M4 | 3.5    |
| YCR-3 M12×1.25 | 20 | 8  | 3×3 | 2   | 16 | 3-M4 | 3.5    |
| YCR-3 M12×1.25 | 22 | 8  | 3×3 | 2   | 18 | 3-M4 | 3.5    |
| YCR-3 M14×1.5  | 25 | 8  | 3×3 | 2   | 20 | 3-M4 | 3.5    |
| YCR-3 M15×1.0  | 25 | 8  | 3×3 | 2   | 20 | 3-M4 | 3.5    |
| YCR-3 M16×1.5  | 28 | 10 | 3×4 | 2   | 23 | 3-M5 | 4.5    |
| YCR-3 M17×1.0  | 28 | 10 | 3×4 | 2   | 23 | 3-M5 | 4.5    |
| YCR-3 M18×1.5  | 30 | 10 | 3×4 | 2   | 25 | 3-M5 | 4.5    |
| YCR-3 M20×1.0  | 32 | 10 | 3×5 | 2   | 27 | 3-M5 | 4.5    |
| YCR-3 M20×1.5  | 32 | 10 | 3×5 | 2   | 27 | 3-M5 | 4.5    |
| YCR-3 M22×1.5  | 35 | 10 | 3×5 | 2   | 30 | 3-M5 | 4.5    |
| YCR-3 M24×1.5  | 38 | 12 | 3×5 | 2   | 33 | 3-M6 | 8      |
| YCR-3 M25×1.5  | 38 | 12 | 3×5 | 2   | 33 | 3-M6 | 8      |
| YCR-3 M27×1.5  | 42 | 12 | 3×5 | 2   | 37 | 3-M6 | 8      |
| YCR-3 M30×1.0  | 45 | 12 | 3×5 | 2   | 40 | 3-M6 | 8      |
| YCR-3 M30×1.5  | 45 | 12 | 3×5 | 2   | 40 | 3-M6 | 8      |
| YCR-3 M33×1.5  | 52 | 12 | 3×6 | 2.5 | 46 | 3-M6 | 8      |
| YCR-3 M35×1.5  | 52 | 12 | 3×6 | 2.5 | 46 | 3-M6 | 8      |
| YCR-3 M36×1.5  | 55 | 12 | 3×6 | 2.5 | 46 | 3-M6 | 8      |
| YCR-3 M39×1.5  | 58 | 14 | 3×6 | 2.5 | 52 | 3-M6 | 8      |
| YCR-3 M40×1.5  | 58 | 14 | 3×6 | 2.5 | 52 | 3-M6 | 8      |
| YCR-3 M42×1.5  | 62 | 14 | 3×6 | 2.5 | 56 | 3-M6 | 8      |
| YCR-3 M45×1.5  | 65 | 14 | 3×6 | 2.5 | 59 | 3-M6 | 8      |
| YCR-3 M48×1.5  | 68 | 14 | 3×6 | 2.5 | 62 | 3-M6 | 8      |
| YCR-3 M50×1.5  | 70 | 14 | 3×6 | 2.5 | 64 | 3-M8 | 18     |
| YCR-3 M52×1.5  | 73 | 16 | 3×8 | 3   | 66 | 3-M8 | 18     |

## Radial Lock Nut With Three Slots YCR-3 Series

| Thread         | D   | h  | n×g  | t   | d   | n-m   | Max.Nm |
|----------------|-----|----|------|-----|-----|-------|--------|
| YCR-3 M55×2.0  | 75  | 16 | 3×8  | 3   | 68  | 3-M8  | 18     |
| YCR-3 M56×2.0  | 75  | 16 | 3×8  | 3   | 68  | 3-M8  | 18     |
| YCR-3 M60×1.5  | 80  | 16 | 3×8  | 3   | 73  | 3-M8  | 18     |
| YCR-3 M60×2.0  | 80  | 16 | 3×8  | 3   | 73  | 3-M8  | 18     |
| YCR-3 M64×2.0  | 85  | 16 | 3×8  | 3   | 78  | 3-M8  | 18     |
| YCR-3 M65×2.0  | 85  | 16 | 3×8  | 3   | 78  | 3-M8  | 18     |
| YCR-3 M68×2.0  | 92  | 18 | 3×8  | 3.5 | 84  | 3-M8  | 18     |
| YCR-3 M70×2.0  | 92  | 18 | 3×8  | 3.5 | 84  | 3-M8  | 18     |
| YCR-3 M72×2.0  | 94  | 18 | 3×8  | 3.5 | 86  | 3-M8  | 18     |
| YCR-3 M75×2.0  | 98  | 18 | 3×8  | 3.5 | 90  | 3-M8  | 18     |
| YCR-3 M76×2.0  | 100 | 18 | 3×8  | 3.5 | 92  | 3-M8  | 18     |
| YCR-6 M80×2.0  | 105 | 18 | 6×8  | 3.5 | 96  | 3-M8  | 18     |
| YCR-6 M85×2.0  | 110 | 18 | 6×8  | 3.5 | 102 | 3-M8  | 18     |
| YCR-6 M90×2.0  | 120 | 20 | 6×10 | 4   | 108 | 3-M8  | 18     |
| YCR-6 M95×2.0  | 125 | 20 | 6×10 | 4   | 113 | 3-M8  | 18     |
| YCR-6 M100×2.0 | 130 | 20 | 6×10 | 4   | 118 | 3-M8  | 18     |
| YCR-6 M105×2.0 | 140 | 22 | 6×12 | 5   | 125 | 3-M10 | 35     |
| YCR-6 M110×2.0 | 145 | 22 | 6×12 | 5   | 132 | 3-M10 | 35     |
| YCR-6 M115×2.0 | 150 | 22 | 6×12 | 5   | 137 | 3-M10 | 35     |
| YCR-6 M120×2.0 | 155 | 24 | 6×12 | 5   | 142 | 3-M10 | 35     |
| YCR-6 M125×2.0 | 160 | 24 | 6×12 | 5   | 147 | 3-M10 | 35     |
| YCR-6 M130×2.0 | 165 | 24 | 6×12 | 5   | 152 | 3-M10 | 35     |
| YCR-6 M135×2.0 | 175 | 26 | 6×14 | 6   | 160 | 3-M10 | 35     |
| YCR-6 M140×2.0 | 178 | 26 | 6×14 | 6   | 165 | 3-M12 | 60     |
| YCR-6 M145×2.0 | 190 | 26 | 6×14 | 6   | 175 | 3-M12 | 60     |
| YCR-6 M150×2.0 | 195 | 26 | 6×14 | 6   | 180 | 3-M12 | 60     |
| YCR-6 M155×3.0 | 200 | 28 | 6×16 | 7   | 180 | 3-M12 | 60     |
| YCR-6 M160×3.0 | 210 | 28 | 6×16 | 7   | 190 | 3-M12 | 60     |
| YCR-6 M165×3.0 | 210 | 28 | 6×16 | 7   | 190 | 3-M12 | 60     |
| YCR-6 M170×3.0 | 220 | 28 | 6×16 | 7   | 200 | 3-M12 | 60     |
| YCR-6 M180×3.0 | 230 | 30 | 6×18 | 8   | 205 | 3-M12 | 60     |
| YCR-6 M190×3.0 | 240 | 30 | 6×18 | 8   | 215 | 3-M12 | 60     |
| YCR-6 M195×3.0 | 240 | 30 | 6×18 | 8   | 215 | 3-M12 | 60     |
| YCR-6 M200×3.0 | 250 | 32 | 6×18 | 8   | 225 | 3-M12 | 60     |
| YCR-6 M210×3.0 | 260 | 32 | 6×18 | 8   | 240 | 3-M12 | 60     |
| YCR-6 M220×3.0 | 270 | 32 | 6×18 | 8   | 250 | 3-M12 | 60     |
| YCR-6 M230×3.0 | 280 | 34 | 6×20 | 9   | 258 | 3-M12 | 60     |
| YCR-6 M240×3.0 | 290 | 34 | 6×20 | 9   | 268 | 3-M12 | 60     |
| YCR-6 M250×3.0 | 300 | 34 | 6×20 | 9   | 278 | 3-M12 | 60     |
| YCR-6 M260×4.0 | 310 | 34 | 6×22 | 10  | 288 | 3-M14 | 100    |
| YCR-6 M270×4.0 | 320 | 34 | 6×22 | 10  | 298 | 3-M14 | 100    |

Non-standard nuts can be customized

## Axial Lock Nut YCA Series



The locking method of the YCA type lock nut is axial locking. Its thickness is the same as that of the YCF series and is suitable for situations where other products cannot be used due to restrictions in design or assembly.

Material: 42CrMo Hardness: HRC 28° - 32° Thread Precision: ISO 4H

End Face Runout: M12 - M200 0.002 - 0.005mm M210 - M300 0.005 - 0.008mm

| Thread      | D  | h  | n×g | t   | d  | n-m  | Max.Nm |
|-------------|----|----|-----|-----|----|------|--------|
| YCA M12×1.0 | 30 | 14 | 4×4 | 2   | 25 | 2-M4 | 3.5    |
| YCA M14×1.5 | 30 | 14 | 4×4 | 2   | 25 | 2-M4 | 3.5    |
| YCA M15×1.0 | 30 | 14 | 4×4 | 2   | 25 | 2-M4 | 3.5    |
| YCA M16×1.0 | 30 | 14 | 4×4 | 2   | 25 | 2-M4 | 3.5    |
| YCA M17×1.0 | 32 | 16 | 4×4 | 2   | 27 | 2-M4 | 3.5    |
| YCA M18×1.5 | 32 | 16 | 4×4 | 2   | 27 | 2-M4 | 3.5    |
| YCA M20×1.0 | 38 | 16 | 4×5 | 2   | 33 | 3-M4 | 3.5    |
| YCA M20×1.5 | 38 | 16 | 4×5 | 2   | 33 | 3-M4 | 3.5    |
| YCA M22×1.5 | 38 | 16 | 4×5 | 2   | 33 | 3-M4 | 3.5    |
| YCA M24×1.5 | 38 | 18 | 4×5 | 2   | 33 | 3-M4 | 3.5    |
| YCA M25×1.5 | 38 | 18 | 4×5 | 2   | 33 | 3-M4 | 3.5    |
| YCA M27×1.5 | 40 | 18 | 4×5 | 2   | 35 | 3-M4 | 3.5    |
| YCA M30×1.5 | 45 | 18 | 4×5 | 2   | 40 | 3-M4 | 3.5    |
| YCA M33×1.5 | 50 | 18 | 4×5 | 2   | 45 | 3-M4 | 3.5    |
| YCA M35×1.5 | 52 | 18 | 4×6 | 2.5 | 46 | 3-M6 | 8      |
| YCA M36×1.5 | 52 | 18 | 4×6 | 2.5 | 46 | 3-M6 | 8      |
| YCA M39×1.5 | 58 | 20 | 4×6 | 2.5 | 52 | 3-M6 | 8      |
| YCA M40×1.5 | 58 | 20 | 4×6 | 2.5 | 52 | 3-M6 | 8      |
| YCA M42×1.5 | 62 | 20 | 4×6 | 2.5 | 56 | 3-M6 | 8      |
| YCA M45×1.5 | 65 | 20 | 4×6 | 2.5 | 59 | 3-M6 | 8      |
| YCA M48×1.5 | 70 | 20 | 4×6 | 2.5 | 64 | 3-M6 | 8      |
| YCA M50×1.5 | 70 | 20 | 4×6 | 2.5 | 64 | 3-M6 | 8      |
| YCA M52×1.5 | 73 | 22 | 4×8 | 3   | 66 | 3-M6 | 8      |
| YCA M55×2.0 | 75 | 22 | 4×8 | 3   | 68 | 3-M6 | 8      |
| YCA M56×2.0 | 75 | 22 | 4×8 | 3   | 68 | 3-M6 | 8      |
| YCA M58×1.5 | 80 | 22 | 4×8 | 3   | 73 | 3-M6 | 8      |
| YCA M60×2.0 | 80 | 22 | 4×8 | 3   | 73 | 3-M6 | 8      |
| YCA M64×2.0 | 85 | 22 | 4×8 | 3   | 78 | 3-M6 | 8      |
| YCA M65×2.0 | 85 | 22 | 4×8 | 3   | 78 | 3-M6 | 8      |
| YCA M68×2.0 | 92 | 24 | 4×8 | 3.5 | 84 | 3-M8 | 18     |
| YCA M70×2.0 | 92 | 24 | 4×8 | 3.5 | 84 | 3-M8 | 18     |

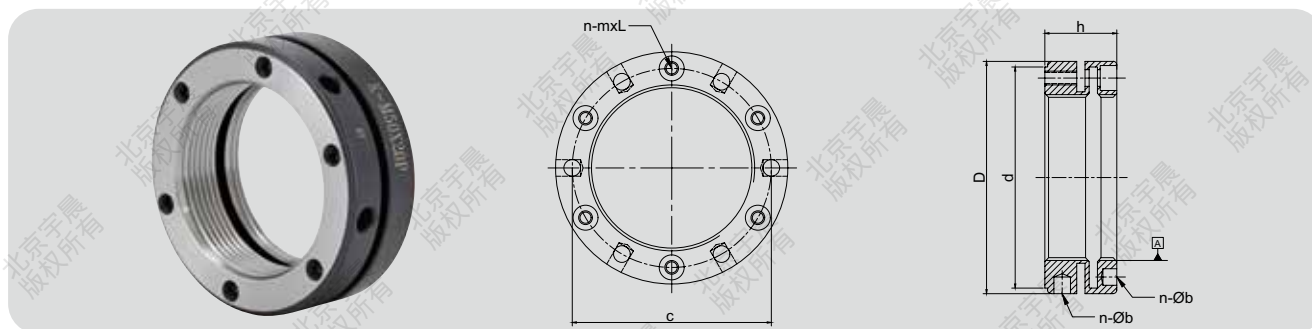
## Axial Lock Nut YCA Series

| Thread       | D   | h  | n×g  | t   | d   | n-m   | Max.Nm |
|--------------|-----|----|------|-----|-----|-------|--------|
| YCA M72×2.0  | 94  | 24 | 4×8  | 3.5 | 86  | 3-M8  | 18     |
| YCA M75×2.0  | 98  | 24 | 4×8  | 3.5 | 90  | 3-M8  | 18     |
| YCA M76×2.0  | 98  | 24 | 4×8  | 3.5 | 90  | 3-M8  | 18     |
| YCA M80×2.0  | 105 | 24 | 4×8  | 3.5 | 96  | 3-M8  | 18     |
| YCA M85×2.0  | 110 | 24 | 4×8  | 3.5 | 102 | 3-M8  | 18     |
| YCA M90×2.0  | 120 | 26 | 4×10 | 4   | 108 | 3-M8  | 18     |
| YCA M95×2.0  | 125 | 26 | 4×10 | 4   | 113 | 3-M8  | 18     |
| YCA M100×2.0 | 130 | 26 | 4×10 | 4   | 118 | 3-M8  | 18     |
| YCA M105×2.0 | 140 | 28 | 4×12 | 5   | 125 | 3-M10 | 35     |
| YCA M110×2.0 | 145 | 28 | 4×12 | 5   | 132 | 3-M10 | 35     |
| YCA M115×2.0 | 150 | 28 | 4×12 | 5   | 137 | 3-M10 | 35     |
| YCA M120×2.0 | 155 | 30 | 4×12 | 5   | 142 | 3-M10 | 35     |
| YCA M125×2.0 | 160 | 30 | 4×12 | 5   | 147 | 3-M10 | 35     |
| YCA M130×2.0 | 165 | 30 | 4×12 | 5   | 152 | 3-M10 | 35     |
| YCA M135×2.0 | 175 | 32 | 4×14 | 6   | 160 | 3-M12 | 60     |
| YCA M140×2.0 | 178 | 32 | 4×14 | 6   | 165 | 3-M12 | 60     |
| YCA M145×2.0 | 190 | 32 | 4×14 | 6   | 175 | 3-M12 | 60     |
| YCA M150×2.0 | 195 | 32 | 4×14 | 6   | 180 | 3-M12 | 60     |
| YCA M155×3.0 | 200 | 34 | 4×16 | 7   | 180 | 3-M12 | 60     |
| YCA M160×3.0 | 210 | 34 | 4×16 | 7   | 190 | 3-M12 | 60     |
| YCA M165×3.0 | 210 | 34 | 4×16 | 7   | 190 | 3-M12 | 60     |
| YCA M170×3.0 | 220 | 34 | 4×16 | 7   | 200 | 3-M12 | 60     |
| YCA M180×3.0 | 230 | 36 | 4×18 | 8   | 205 | 3-M12 | 60     |
| YCA M190×3.0 | 240 | 36 | 4×18 | 8   | 215 | 3-M12 | 60     |
| YCA M200×3.0 | 250 | 38 | 4×18 | 8   | 225 | 3-M12 | 60     |
| YCA M210×3.0 | 260 | 38 | 4×18 | 8   | 240 | 3-M12 | 60     |
| YCA M220×3.0 | 270 | 38 | 4×18 | 8   | 250 | 3-M12 | 60     |
| YCA M230×3.0 | 280 | 40 | 4×20 | 9   | 258 | 3-M12 | 60     |
| YCA M240×3.0 | 290 | 40 | 4×20 | 9   | 268 | 3-M12 | 60     |
| YCA M250×3.0 | 300 | 40 | 4×20 | 9   | 278 | 3-M12 | 60     |
| YCA M260×4.0 | 310 | 40 | 4×22 | 10  | 288 | 3-M14 | 100    |
| YCA M270×4.0 | 320 | 40 | 4×22 | 10  | 298 | 3-M14 | 100    |
| YCA M280×4.0 | 330 | 40 | 6×22 | 10  | 308 | 3-M14 | 100    |
| YCA M290×4.0 | 340 | 42 | 6×24 | 11  | 315 | 3-M14 | 100    |
| YCA M300×4.0 | 350 | 42 | 6×24 | 11  | 325 | 3-M14 | 100    |

Non-standard nuts can be customized

1Nm=10.2kgf.cm=0.73lb.ft

## Contracting Lock Nut YCK Series



The YCK type lock nut uses 3 to 8 high-strength bolts to achieve locking by axially deforming the thread of the nut body. It is suitable for harsh working environments, prone to loosening and requiring high torque, and the runout accuracy of the nut can be regulated by adjusting the tightening force of the axial screws.

Material: 42CrMo/S45C Hardness: HRC 28° - 32° Thread Precision: ISO 4H

End Face Runout: M12 - M200 0.002 - 0.005mm M210 - M300 0.005 - 0.008mm

| Thread      | D  | h  | d  | n-m×L   | n | b | c    | Max.Nm |
|-------------|----|----|----|---------|---|---|------|--------|
| YCK M12×1.0 | 26 | 14 | 25 | 3-M3×10 | 3 | 3 | 19   | 2.5    |
| YCK M14×1.5 | 32 | 16 | —  | 3-M4×10 | 3 | 4 | 22.5 | 3.5    |
| YCK M15×1.5 | 33 | 18 | 30 | 4-M4×12 | 4 | 4 | 24   | 3.5    |
| YCK M16×1.5 | 34 | 18 | 31 | 4-M4×12 | 4 | 4 | 24   | 3.5    |
| YCK M17×1.0 | 37 | 18 | 34 | 4-M4×12 | 4 | 4 | 26   | 3.5    |
| YCK M18×1.5 | 38 | 18 | 35 | 4-M4×12 | 4 | 4 | 28   | 3.5    |
| YCK M20×1.0 | 40 | 18 | 37 | 4-M4×12 | 4 | 4 | 30   | 3.5    |
| YCK M20×1.5 | 40 | 18 | 37 | 4-M4×12 | 4 | 4 | 30   | 3.5    |
| YCK M22×1.5 | 42 | 18 | 39 | 4-M4×12 | 4 | 4 | 32   | 3.5    |
| YCK M24×1.5 | 44 | 18 | 41 | 4-M4×12 | 4 | 4 | 34   | 3.5    |
| YCK M25×1.5 | 45 | 20 | 42 | 4-M4×14 | 4 | 5 | 35   | 3.5    |
| YCK M26×1.5 | 45 | 20 | 42 | 4-M4×14 | 4 | 5 | 35   | 3.5    |
| YCK M27×1.5 | 46 | 20 | 43 | 4-M4×14 | 4 | 5 | 37   | 3.5    |
| YCK M28×1.5 | 46 | 20 | 43 | 4-M4×14 | 4 | 5 | 37   | 3.5    |
| YCK M30×1.5 | 48 | 20 | 45 | 4-M4×14 | 4 | 5 | 39   | 3.5    |
| YCK M32×1.5 | 50 | 22 | 47 | 4-M4×16 | 4 | 5 | 41   | 3.5    |
| YCK M33×1.5 | 50 | 22 | 47 | 4-M4×16 | 4 | 5 | 41   | 3.5    |
| YCK M35×1.5 | 53 | 22 | 50 | 4-M4×16 | 4 | 5 | 44   | 3.5    |
| YCK M36×1.5 | 54 | 22 | 51 | 4-M4×16 | 4 | 5 | 44   | 3.5    |
| YCK M38×1.5 | 56 | 22 | 53 | 4-M4×16 | 4 | 5 | 47   | 3.5    |
| YCK M39×1.5 | 56 | 22 | 53 | 4-M4×16 | 4 | 5 | 47.5 | 3.5    |
| YCK M40×1.5 | 58 | 22 | 55 | 4-M4×16 | 4 | 5 | 49   | 3.5    |
| YCK M42×1.5 | 60 | 22 | 57 | 4-M4×16 | 4 | 5 | 51   | 3.5    |
| YCK M45×1.5 | 68 | 22 | 65 | 6-M4×18 | 6 | 6 | 57   | 3.5    |
| YCK M48×1.5 | 69 | 25 | 66 | 6-M4×18 | 6 | 6 | 58   | 3.5    |
| YCK M50×1.5 | 70 | 25 | 67 | 6-M4×18 | 6 | 6 | 60   | 3.5    |
| YCK M52×1.5 | 72 | 25 | 68 | 6-M4×18 | 6 | 6 | 62   | 3.5    |
| YCK M55×1.5 | 75 | 25 | 71 | 6-M4×18 | 6 | 6 | 65   | 3.5    |
| YCK M55×2.0 | 75 | 25 | 71 | 6-M4×18 | 6 | 6 | 65   | 3.5    |
| YCK M56×1.5 | 75 | 25 | 71 | 6-M4×18 | 6 | 6 | 65   | 3.5    |

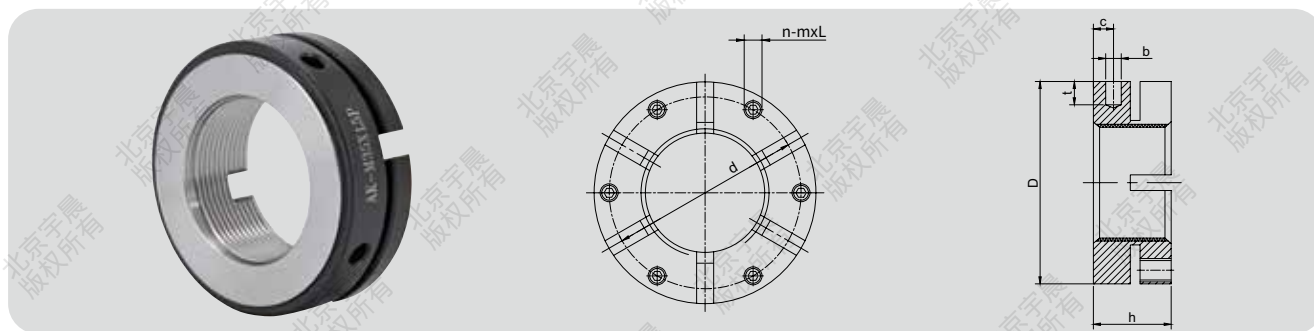
## Contracting Lock Nut YCK Series

| Thread       | D   | h  | d   | n-m×L    | n | b  | c   | Max.Nm |
|--------------|-----|----|-----|----------|---|----|-----|--------|
| YCK M58×1.5  | 82  | 26 | 78  | 6-M5×20  | 6 | 6  | 70  | 4.5    |
| YCK M60×1.5  | 84  | 26 | 80  | 6-M5×20  | 6 | 6  | 72  | 4.5    |
| YCK M60×2.0  | 84  | 26 | 80  | 6-M5×20  | 6 | 6  | 72  | 4.5    |
| YCK M62×1.5  | 86  | 28 | 82  | 6-M5×20  | 6 | 6  | 75  | 4.5    |
| YCK M64×1.5  | 88  | 28 | 84  | 6-M5×20  | 6 | 6  | 77  | 4.5    |
| YCK M65×1.5  | 88  | 28 | 84  | 6-M5×20  | 6 | 6  | 77  | 4.5    |
| YCK M65×2.0  | 88  | 28 | 84  | 6-M5×20  | 6 | 6  | 77  | 4.5    |
| YCK M68×1.5  | 93  | 28 | 89  | 6-M5×20  | 6 | 7  | 80  | 4.5    |
| YCK M68×2.0  | 93  | 28 | 89  | 6-M5×20  | 6 | 7  | 80  | 4.5    |
| YCK M70×1.5  | 95  | 28 | 91  | 6-M5×20  | 6 | 7  | 82  | 4.5    |
| YCK M70×2.0  | 95  | 28 | 91  | 6-M5×20  | 6 | 7  | 82  | 4.5    |
| YCK M72×1.5  | 97  | 28 | 93  | 6-M5×20  | 6 | 7  | 84  | 4.5    |
| YCK M75×1.5  | 100 | 28 | 96  | 6-M5×20  | 6 | 7  | 87  | 4.5    |
| YCK M75×2.0  | 100 | 28 | 96  | 6-M5×20  | 6 | 7  | 87  | 4.5    |
| YCK M80×2.0  | 110 | 32 | 105 | 6-M6×22  | 6 | 8  | 95  | 8      |
| YCK M85×2.0  | 115 | 32 | 110 | 6-M6×22  | 6 | 8  | 100 | 8      |
| YCK M90×2.0  | 120 | 32 | 115 | 6-M6×22  | 6 | 8  | 105 | 8      |
| YCK M95×2.0  | 125 | 32 | 120 | 6-M6×22  | 6 | 8  | 110 | 8      |
| YCK M100×2.0 | 130 | 32 | 125 | 6-M6×22  | 6 | 8  | 115 | 8      |
| YCK M105×2.0 | 135 | 32 | 130 | 6-M6×22  | 6 | 8  | 120 | 8      |
| YCK M110×2.0 | 140 | 32 | 135 | 6-M6×22  | 6 | 8  | 125 | 8      |
| YCK M115×2.0 | 145 | 34 | 140 | 6-M6×22  | 6 | 8  | 130 | 8      |
| YCK M120×2.0 | 155 | 36 | 150 | 6-M6×25  | 6 | 8  | 136 | 8      |
| YCK M125×2.0 | 160 | 36 | 155 | 6-M6×25  | 6 | 8  | 140 | 8      |
| YCK M130×2.0 | 165 | 36 | 160 | 6-M6×25  | 6 | 8  | 148 | 8      |
| YCK M140×3.0 | 178 | 38 | 173 | 8-M6×25  | 8 | 10 | 160 | 8      |
| YCK M150×3.0 | 190 | 38 | 184 | 8-M6×25  | 8 | 10 | 170 | 8      |
| YCK M160×3.0 | 205 | 40 | 199 | 8-M8×30  | 8 | 10 | 178 | 18     |
| YCK M170×3.0 | 215 | 40 | 209 | 8-M8×30  | 8 | 10 | 193 | 18     |
| YCK M180×3.0 | 230 | 40 | 224 | 8-M8×30  | 8 | 10 | 205 | 18     |
| YCK M190×3.0 | 240 | 40 | 234 | 8-M8×30  | 8 | 10 | 215 | 18     |
| YCK M200×3.0 | 245 | 40 | 239 | 8-M8×30  | 8 | 10 | 223 | 18     |
| YCK M210×3.0 | 255 | 42 | 249 | 8-M8×30  | 8 | 10 | 232 | 18     |
| YCK M220×3.0 | 260 | 42 | 254 | 8-M8×30  | 8 | 10 | 240 | 18     |
| YCK M230×3.0 | 270 | 42 | 264 | 8-M8×30  | 8 | 10 | 250 | 18     |
| YCK M240×3.0 | 280 | 42 | 274 | 8-M8×30  | 8 | 10 | 260 | 18     |
| YCK M250×3.0 | 290 | 42 | 284 | 8-M8×30  | 8 | 10 | 270 | 18     |
| YCK M260×4.0 | 300 | 43 | 294 | 8-M10×30 | 8 | 12 | 280 | 35     |
| YCK M270×4.0 | 310 | 43 | 300 | 8-M10×30 | 8 | 12 | 290 | 35     |
| YCK M280×4.0 | 320 | 43 | 310 | 8-M10×30 | 8 | 12 | 300 | 35     |
| YCK M290×4.0 | 330 | 43 | 320 | 8-M10×30 | 8 | 12 | 310 | 35     |
| YCK M300×4.0 | 340 | 43 | 330 | 8-M10×30 | 8 | 12 | 320 | 35     |

Non-standard nuts can be customized

1Nm=10.2kgf.cm=0.73lb.ft

## Deformed Lock Nut YCAK Series



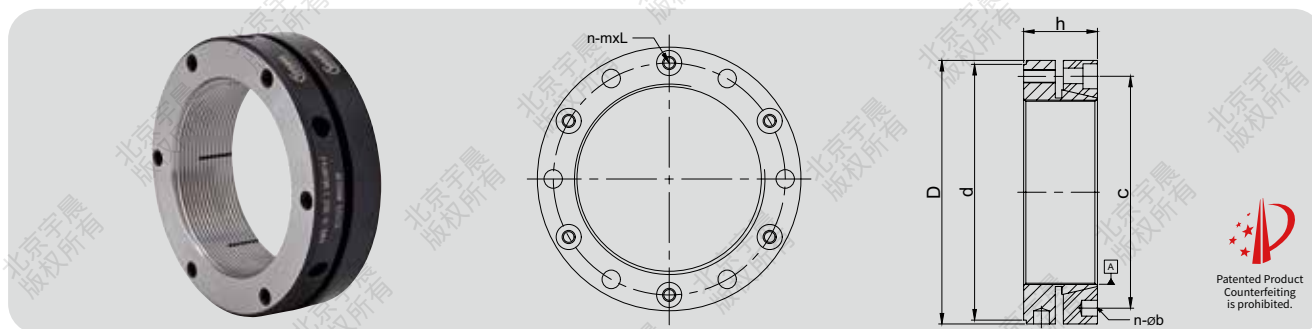
The YCAK type lock nut uses 4-8 high-strength flat head screws to support the end face. With the elasticity of the steel itself, its thread is deformed to achieve locking. Its external dimensions are similar to those of the YCF type and can be used interchangeably. The YCAK type lock nut is suitable for environments prone to loosening or with limited installation space, and its locking capacity is more than twice that of the YCF type.

Material: 42CrMo/S45C Hardness: HRC 28° - 32° Thread Precision: ISO 4H End Face Runout: 0.002 - 0.005mm

| Thread        | D   | h  | b | t  | d   | c  | n-m×L    | Max.Nm |
|---------------|-----|----|---|----|-----|----|----------|--------|
| YCAK M15×1.0  | 30  | 18 | 4 | 5  | 24  | 5  | 4-M5×6   | 3      |
| YCAK M17×1.0  | 32  | 18 | 4 | 5  | 26  | 5  | 4-M5×6   | 3      |
| YCAK M20×1.0  | 38  | 18 | 4 | 6  | 31  | 5  | 4-M6×8   | 5      |
| YCAK M25×1.5  | 45  | 20 | 5 | 6  | 38  | 6  | 4-M6×8   | 5      |
| YCAK M30×1.5  | 52  | 20 | 5 | 7  | 45  | 6  | 4-M6×8   | 5      |
|               | 65  | 30 | 6 | 8  | 45  | 6  | 4-M6×8   | 5      |
| YCAK M35×1.5  | 58  | 20 | 5 | 7  | 51  | 6  | 4-M6×8   | 5      |
|               | 65  | 22 | 6 | 8  | 58  | 6  | 4-M6×8   | 5      |
| YCAK M40×1.5  | 65  | 22 | 6 | 8  | 58  | 6  | 4-M6×8   | 5      |
|               | 85  | 32 | 6 | 8  | 58  | 6  | 4-M6×8   | 5      |
| YCAK M45×1.5  | 70  | 22 | 6 | 8  | 63  | 6  | 6-M6×8   | 5      |
| YCAK M50×1.5  | 75  | 25 | 6 | 8  | 68  | 8  | 6-M6×8   | 5      |
| YCAK M55×2.0  | 85  | 26 | 6 | 8  | 75  | 8  | 6-M8×10  | 15     |
| YCAK M60×2.0  | 90  | 26 | 6 | 8  | 80  | 8  | 6-M8×10  | 15     |
| YCAK M65×2.0  | 100 | 26 | 8 | 10 | 88  | 8  | 6-M8×10  | 15     |
| YCAK M70×2.0  | 100 | 28 | 8 | 10 | 90  | 9  | 6-M8×10  | 15     |
| YCAK M75×2.0  | 115 | 30 | 8 | 10 | 102 | 10 | 6-M10×12 | 20     |
| YCAK M80×2.0  | 110 | 30 | 8 | 10 | 98  | 10 | 6-M10×12 | 20     |
| YCAK M85×2.0  | 115 | 30 | 8 | 10 | 102 | 10 | 6-M10×12 | 20     |
| YCAK M90×2.0  | 130 | 32 | 8 | 10 | 118 | 13 | 6-M10×12 | 20     |
| YCAK M100×2.0 | 130 | 30 | 8 | 10 | 118 | 10 | 8-M10×12 | 20     |
| YCAK M110×2.0 | 140 | 30 | 8 | 10 | 128 | 10 | 8-M10×12 | 20     |
| YCAK M120×2.0 | 155 | 30 | 8 | 10 | 142 | 10 | 8-M10×12 | 20     |
| YCAK M130×2.0 | 165 | 30 | 8 | 10 | 152 | 10 | 8-M10×12 | 20     |

Non-standard nuts can be customized

## Taper Lock Nut YCZ Series



The taper lock nut is matched with a taper ring with a corresponding angle inner cone through the outer cone on the outer circle of the rear end of the nut body. Bolts pass through the holes on the nut body and the end face of the taper ring to tighten and connect the inner and outer cones. Based on the taper wedge action principle of the nut body and the taper ring, corresponding wire cutting grooves are provided in the taper part of the nut body (2-10 grooves are provided according to the requirements of the use environment), so that under the compression of the axial locking bolt of the outer taper ring, the inner cone thread deforms inward, thereby allowing the female thread to completely embrace the male thread. In addition, by increasing the number of locking holes and bolts on the end faces of the nut body and the taper ring, the anti-loosening torque of the thread can be enhanced, and the wedge force can also be increased by changing the taper angle of the nut body and the taper ring to achieve a higher anti-loosening torque of the thread. In order to achieve a more balanced taper deformation effect of the nut, more wire cutting grooves can also be processed on the inner cone of the nut.

Material: 42CrMo/S45C Hardness: HRC 28° - 32° Thread Precision: ISO 4H

End Face Runout: M8 - M200 0.002 - 0.005mm M210 - M300 0.005 - 0.008mm

Patent Number: ZL2022 2 0815874.2

| Thread      | D   | h  | d   | n-m×L   | n | b | c   | Max.Nm |
|-------------|-----|----|-----|---------|---|---|-----|--------|
| YCZ M8×1.0  | 30  | 16 | 27  | 3-M4×10 | 3 | 4 | 21  | 3.5    |
| YCZ M10×1.0 | 32  | 16 | 29  | 3-M4×10 | 3 | 4 | 23  | 3.5    |
| YCZ M12×1.0 | 34  | 18 | 31  | 3-M4×12 | 3 | 4 | 25  | 3.5    |
| YCZ M14×1.5 | 36  | 18 | 33  | 3-M4×12 | 3 | 4 | 27  | 3.5    |
| YCZ M16×1.5 | 38  | 18 | 35  | 3-M4×12 | 3 | 4 | 29  | 3.5    |
| YCZ M18×1.5 | 40  | 18 | 37  | 3-M4×12 | 3 | 4 | 31  | 3.5    |
| YCZ M20×1.5 | 42  | 18 | 39  | 3-M4×12 | 3 | 4 | 33  | 3.5    |
| YCZ M24×1.5 | 46  | 18 | 43  | 3-M4×12 | 3 | 4 | 37  | 3.5    |
| YCZ M25×1.5 | 47  | 20 | 44  | 3-M4×14 | 3 | 5 | 38  | 3.5    |
| YCZ M30×1.5 | 52  | 20 | 49  | 3-M4×14 | 3 | 5 | 43  | 3.5    |
| YCZ M35×1.5 | 57  | 22 | 54  | 3-M4×16 | 3 | 5 | 48  | 3.5    |
| YCZ M40×1.5 | 62  | 22 | 59  | 3-M4×16 | 3 | 5 | 53  | 3.5    |
| YCZ M45×1.5 | 67  | 22 | 64  | 6-M4×16 | 6 | 6 | 58  | 3.5    |
| YCZ M50×1.5 | 72  | 25 | 69  | 6-M4×18 | 6 | 6 | 63  | 3.5    |
| YCZ M55×2.0 | 77  | 25 | 74  | 6-M4×18 | 6 | 6 | 68  | 3.5    |
| YCZ M60×2.0 | 90  | 26 | 87  | 6-M5×18 | 6 | 6 | 78  | 4.5    |
| YCZ M65×2.0 | 95  | 28 | 92  | 6-M5×20 | 6 | 6 | 83  | 4.5    |
| YCZ M70×2.0 | 100 | 28 | 97  | 6-M5×20 | 6 | 7 | 88  | 4.5    |
| YCZ M75×2.0 | 105 | 28 | 102 | 6-M5×20 | 6 | 7 | 93  | 4.5    |
| YCZ M80×2.0 | 113 | 32 | 110 | 6-M6×22 | 6 | 8 | 100 | 8      |

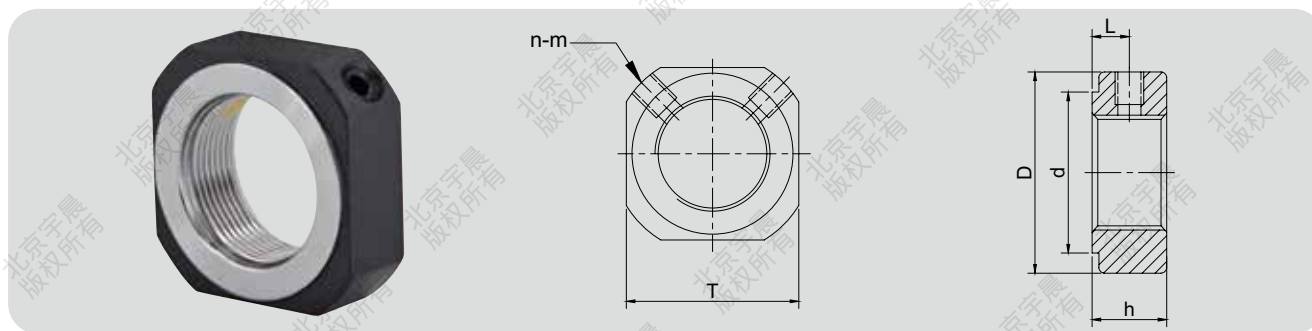
## Taper Lock Nut YCZ Series

| Thread       | D   | h  | d   | n-m×L   | n | b  | c   | Max.Nm |
|--------------|-----|----|-----|---------|---|----|-----|--------|
| YCZ M85×2.0  | 118 | 32 | 115 | 6-M6×22 | 6 | 8  | 105 | 8      |
| YCZ M90×2.0  | 123 | 32 | 120 | 6-M6×22 | 6 | 8  | 110 | 8      |
| YCZ M95×2.0  | 128 | 32 | 125 | 6-M6×22 | 6 | 8  | 115 | 8      |
| YCZ M100×2.0 | 133 | 32 | 130 | 6-M6×22 | 6 | 8  | 120 | 8      |
| YCZ M105×2.0 | 138 | 32 | 135 | 6-M6×22 | 6 | 8  | 125 | 8      |
| YCZ M110×2.0 | 143 | 32 | 140 | 6-M6×22 | 6 | 8  | 130 | 8      |
| YCZ M115×2.0 | 148 | 32 | 145 | 6-M6×22 | 6 | 8  | 135 | 8      |
| YCZ M120×2.0 | 155 | 36 | 150 | 6-M6×25 | 6 | 8  | 140 | 8      |
| YCZ M125×2.0 | 160 | 36 | 155 | 6-M6×25 | 6 | 8  | 145 | 8      |
| YCZ M130×2.0 | 165 | 36 | 160 | 6-M6×25 | 6 | 8  | 150 | 8      |
| YCZ M140×3.0 | 175 | 38 | 170 | 8-M6×25 | 8 | 10 | 160 | 8      |
| YCZ M150×3.0 | 193 | 38 | 188 | 8-M8×25 | 8 | 10 | 175 | 18     |
| YCZ M160×3.0 | 205 | 40 | 199 | 8-M8×25 | 8 | 10 | 185 | 18     |
| YCZ M170×3.0 | 215 | 40 | 209 | 8-M8×25 | 8 | 10 | 195 | 18     |
| YCZ M180×3.0 | 225 | 40 | 219 | 8-M8×25 | 8 | 10 | 205 | 18     |
| YCZ M190×3.0 | 235 | 40 | 229 | 8-M8×25 | 8 | 10 | 215 | 18     |
| YCZ M200×3.0 | 245 | 40 | 239 | 8-M8×25 | 8 | 10 | 225 | 18     |
| YCZ M210×3.0 | 255 | 42 | 249 | 8-M8×30 | 8 | 10 | 235 | 18     |
| YCZ M220×3.0 | 265 | 42 | 259 | 8-M8×30 | 8 | 10 | 245 | 18     |
| YCZ M230×3.0 | 275 | 42 | 269 | 8-M8×30 | 8 | 10 | 255 | 18     |
| YCZ M240×3.0 | 285 | 42 | 279 | 8-M8×30 | 8 | 10 | 265 | 18     |
| YCZ M250×3.0 | 295 | 42 | 289 | 8-M8×30 | 8 | 10 | 275 | 18     |
| YCZ M260×3.0 | 310 | 43 | 304 | 8-M8×30 | 8 | 10 | 289 | 18     |
| YCZ M270×3.0 | 320 | 43 | 314 | 8-M8×30 | 8 | 10 | 299 | 18     |
| YCZ M280×3.0 | 330 | 43 | 324 | 8-M8×30 | 8 | 10 | 309 | 18     |
| YCZ M290×3.0 | 340 | 43 | 334 | 8-M8×30 | 8 | 10 | 319 | 18     |
| YCZ M300×3.0 | 350 | 43 | 344 | 8-M8×30 | 8 | 10 | 329 | 18     |

Non-standard nuts can be customized

1Nm=10.2kgf.cm=0.73lb.ft

## Square Nut DN Series



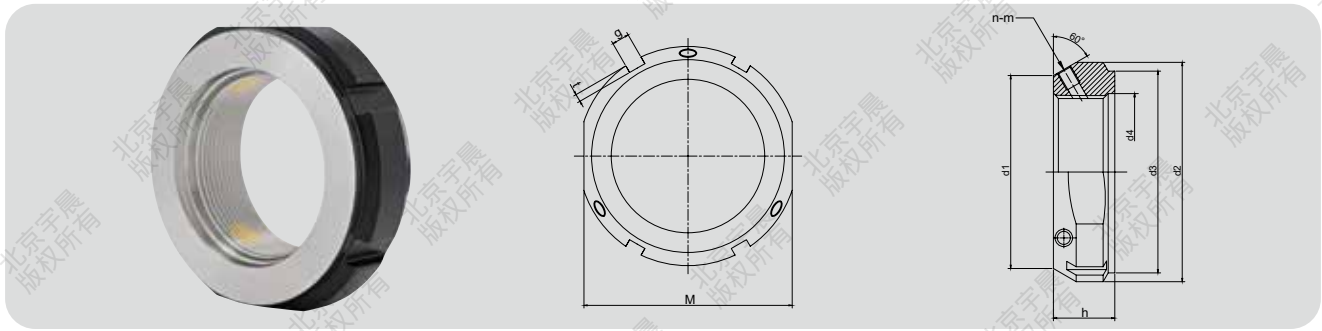
The square nut DN series locking screws are radially locked, suitable for simple installation parts and fixed by two locking screws at an included angle radially.

Material: 42CrMo/S45C Thread Precision: ISO 4H Hardness: HRC 24° - 30° End Face Runout: 0.002 - 0.005mm

| PartNo | Thread   | n-m  | D    | d  | h   | L   | T  |
|--------|----------|------|------|----|-----|-----|----|
| DN5    | M5×0.5   | 2-M3 | 12.5 | 10 | 5   | 2.7 | 11 |
| DN6    | M6×0.75  | 2-M3 | 13.5 | 10 | 5   | 2.7 | 12 |
| DN8    | M8×1.0   | 2-M3 | 16   | 12 | 6.5 | 4   | 14 |
| DN8    | M8×0.75  | 2-M3 | 16   | 12 | 6.5 | 4   | 14 |
| DN10   | M10×1.0  | 2-M4 | 19   | 15 | 8   | 5   | 17 |
| DN10   | M10×0.75 | 2-M4 | 19   | 15 | 8   | 5   | 17 |
| DN12   | M12×1.0  | 2-M4 | 22   | 17 | 8   | 5   | 19 |
| DN15   | M15×1.0  | 2-M4 | 25   | 21 | 8   | 5   | 22 |
| DN17   | M17×1.0  | 2-M4 | 28   | 23 | 10  | 5.4 | 24 |
| DN17   | M17×1.0  | 2-M4 | 28   | 22 | 13  | 9   | 24 |
| DN20   | M20×1.0  | 2-M5 | 35   | 28 | 11  | 7   | 30 |
| DN25   | M25×1.5  | 2-M6 | 43   | 33 | 15  | 10  | 35 |
| DN30   | M30×1.5  | 2-M6 | 48   | 38 | 20  | 14  | 40 |
| DN35   | M35×1.5  | 2-M8 | 60   | 48 | 21  | 14  | 50 |
| DN40   | M40×1.5  | 2-M8 | 60   | 48 | 25  | 18  | 50 |

Non-standard nuts can be customized

## Lock Nut YCKMT Series



The YCKMT type lock nut, whose locking copper is designed at a 30° angle to the thread, is widely used for locking the main shaft and lead screw bearings of machine tools, and can be locked using a common open-end wrench.

Material: S45C/42CrMo Hardness: HRC 28° - 32° Thread Precision: ISO 4H

End Face Runout: M10 - M200 0.002 - 0.005mm Tr220 - Tr420 0.005 - 0.008mm

| Thread         | d1  | d2  | d3  | d4  | h  | g  | t   | M   | n-m   | Max.Nm |
|----------------|-----|-----|-----|-----|----|----|-----|-----|-------|--------|
| YCKMT M10×0.75 | 21  | 28  | 23  | 11  | 14 | 4  | 2   | 24  | 3-M5  | 4.5    |
| YCKMT M12×1.0  | 23  | 30  | 25  | 13  | 14 | 4  | 2   | 27  | 3-M5  | 4.5    |
| YCKMT M15×1.0  | 26  | 33  | 28  | 16  | 16 | 4  | 2   | 30  | 3-M5  | 4.5    |
| YCKMT M17×1.0  | 29  | 37  | 33  | 18  | 18 | 5  | 2   | 34  | 3-M6  | 8      |
| YCKMT M20×1.0  | 32  | 40  | 35  | 21  | 18 | 5  | 2   | 36  | 3-M6  | 8      |
| YCKMT M25×1.5  | 36  | 44  | 39  | 26  | 20 | 5  | 2   | 41  | 3-M6  | 8      |
| YCKMT M30×1.5  | 41  | 49  | 44  | 32  | 20 | 5  | 2   | 46  | 3-M6  | 8      |
| YCKMT M33×1.5  | 41  | 50  | 44  | 35  | 20 | 5  | 2   | 44  | 3-M6  | 8      |
| YCKMT M35×1.5  | 46  | 54  | 49  | 38  | 22 | 5  | 2   | 50  | 3-M6  | 8      |
| YCKMT M40×1.5  | 54  | 65  | 59  | 42  | 22 | 6  | 2.5 | 60  | 3-M8  | 18     |
| YCKMT M45×1.5  | 59  | 70  | 64  | 48  | 22 | 6  | 2.5 | 65  | 3-M8  | 18     |
| YCKMT M50×1.5  | 64  | 75  | 68  | 52  | 25 | 7  | 3   | 70  | 3-M8  | 18     |
| YCKMT M55×2.0  | 74  | 85  | 78  | 58  | 25 | 7  | 3   | 80  | 3-M8  | 18     |
| YCKMT M60×2.0  | 78  | 90  | 82  | 62  | 26 | 8  | 3.5 | 85  | 3-M8  | 18     |
| YCKMT M65×2.0  | 83  | 95  | 87  | 68  | 28 | 8  | 3.5 | 90  | 3-M8  | 18     |
| YCKMT M70×2.0  | 88  | 100 | 92  | 72  | 28 | 8  | 3.5 | 95  | 3-M8  | 18     |
| YCKMT M75×2.0  | 93  | 105 | 97  | 77  | 28 | 8  | 3.5 | 100 | 3-M8  | 18     |
| YCKMT M80×2.0  | 98  | 110 | 100 | 83  | 32 | 8  | 3.5 | —   | 3-M8  | 18     |
| YCKMT M85×2.0  | 107 | 120 | 110 | 88  | 32 | 10 | 4   | —   | 3-M10 | 35     |
| YCKMT M90×2.0  | 112 | 125 | 115 | 93  | 32 | 10 | 4   | —   | 3-M10 | 35     |
| YCKMT M95×2.0  | 117 | 130 | 120 | 98  | 32 | 10 | 4   | —   | 3-M10 | 35     |
| YCKMT M100×2.0 | 122 | 135 | 125 | 103 | 32 | 10 | 4   | —   | 3-M10 | 35     |
| YCKMT M110×2.0 | 132 | 145 | 134 | 112 | 32 | 10 | 4   | —   | 3-M10 | 35     |
| YCKMT M120×2.0 | 142 | 155 | 144 | 122 | 32 | 10 | 4   | —   | 3-M10 | 35     |
| YCKMT M130×2.0 | 152 | 165 | 154 | 132 | 32 | 12 | 5   | —   | 3-M10 | 35     |
| YCKMT M140×2.0 | 162 | 175 | 164 | 142 | 32 | 14 | 6   | —   | 3-M10 | 35     |

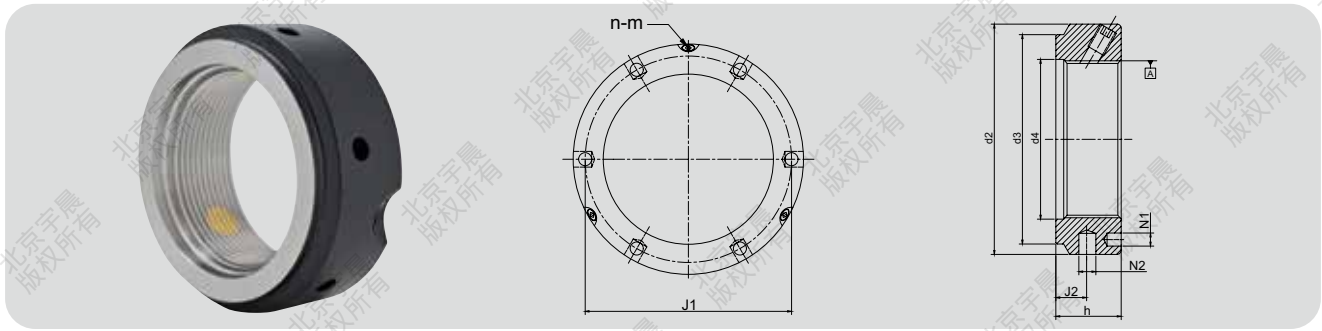
The boss height is 2mm for M35 and below, and 3mm for M40 and above. The depth of all d4 models is 3 millimeters.

## Lock Nut YCKMT Series

| Thread          | d1  | d2  | d3  | d4  | h  | g  | t | M | n-m   | Max.Nm |
|-----------------|-----|-----|-----|-----|----|----|---|---|-------|--------|
| YCKMT M150×2.0  | 172 | 185 | 174 | 152 | 32 | 14 | 6 | — | 3-M10 | 35     |
| YCKMT M160×3.0  | 182 | 195 | 184 | 162 | 32 | 14 | 6 | — | 3-M10 | 35     |
| YCKMT M170×3.0  | 192 | 205 | 192 | 172 | 32 | 14 | 6 | — | 3-M10 | 35     |
| YCKMT M180×3.0  | 202 | 215 | 204 | 182 | 32 | 16 | 7 | — | 3-M10 | 35     |
| YCKMT M190×3.0  | 212 | 225 | 214 | 192 | 32 | 16 | 7 | — | 3-M10 | 35     |
| YCKMT M200×3.0  | 222 | 235 | 224 | 202 | 32 | 18 | 8 | — | 3-M10 | 35     |
| YCKMT Tr220×4.0 | —   | 265 | 254 | 222 | —  | —  | — | — | 3-M10 | 35     |
| YCKMT Tr240×4.0 | —   | 290 | 279 | 242 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr250×4.0 | —   | 300 | 289 | 252 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr260×4.0 | —   | 310 | 299 | 262 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr280×4.0 | —   | 330 | 319 | 282 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr300×4.0 | —   | 360 | 349 | 302 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr320×5.0 | —   | 390 | 379 | 322 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr340×5.0 | —   | 410 | 399 | 342 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr360×5.0 | —   | 430 | 419 | 362 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr380×5.0 | —   | 460 | 449 | 382 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr400×5.0 | —   | 480 | 469 | 402 | —  | —  | — | — | 3-M12 | 60     |
| YCKMT Tr420×5.0 | —   | 500 | 489 | 422 | —  | —  | — | — | 3-M12 | 60     |

Non-standard nuts can be customized

## Lock Nut YCKMTA Series



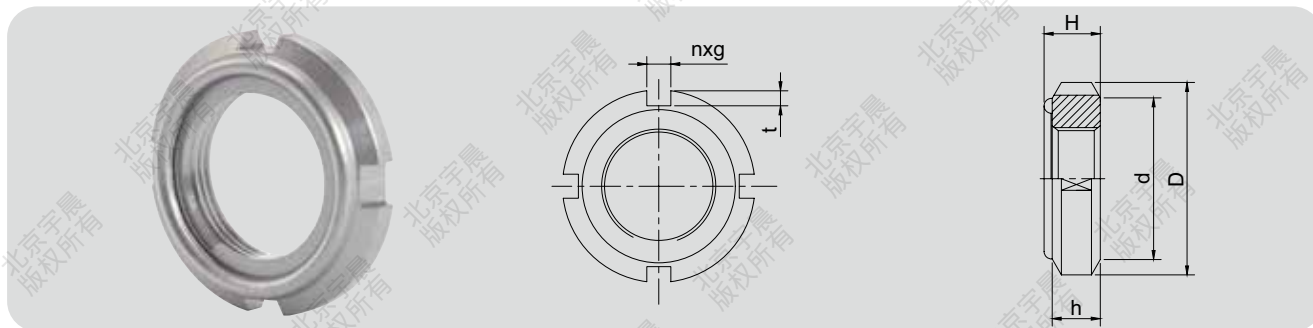
The YCKMTA type lock nut, whose locking copper is designed at a 30° angle to the thread, is widely used for locking the main shaft and lead screw bearings of machine tools.

Material: S45C Hardness: HRC 28° - 32° Thread Precision: ISO 4H End Face Runout: 0.002 - 0.005mm

| Thread          | d2  | d3  | d4  | h  | J1   | J2 | N1  | N2 | n-m   | Max.Nm |
|-----------------|-----|-----|-----|----|------|----|-----|----|-------|--------|
| YCKMTA M20×1.0  | 38  | 30  | 21  | 18 | 29   | 10 | 4.3 | 4  | 3-M6  | 8      |
| YCKMTA M20×1.5  | 38  | 30  | 21  | 18 | 29   | 10 | 4.3 | 4  | 3-M6  | 8      |
| YCKMTA M25×1.5  | 42  | 35  | 26  | 20 | 32.5 | 11 | 4.3 | 4  | 3-M6  | 8      |
| YCKMTA M30×1.5  | 48  | 40  | 32  | 20 | 40.5 | 11 | 4.3 | 5  | 3-M6  | 8      |
| YCKMTA M35×1.5  | 53  | 47  | 38  | 20 | 45.5 | 11 | 4.3 | 5  | 3-M6  | 8      |
| YCKMTA M40×1.5  | 58  | 52  | 42  | 22 | 50.5 | 12 | 4.3 | 5  | 3-M8  | 18     |
| YCKMTA M45×1.5  | 68  | 58  | 48  | 22 | 58   | 12 | 4.3 | 6  | 3-M8  | 18     |
| YCKMTA M50×1.5  | 70  | 63  | 52  | 24 | 61.5 | 13 | 4.3 | 6  | 3-M8  | 18     |
| YCKMTA M55×1.5  | 75  | 70  | 58  | 24 | 66.5 | 13 | 4.3 | 6  | 3-M8  | 18     |
| YCKMTA M60×1.5  | 84  | 75  | 62  | 24 | 74.5 | 13 | 5.3 | 6  | 3-M8  | 18     |
| YCKMTA M65×1.5  | 88  | 80  | 68  | 25 | 78.5 | 13 | 5.3 | 6  | 3-M8  | 18     |
| YCKMTA M70×1.5  | 95  | 86  | 72  | 26 | 85   | 14 | 5.3 | 8  | 3-M8  | 18     |
| YCKMTA M75×1.5  | 100 | 91  | 77  | 26 | 88   | 13 | 6.4 | 8  | 3-M8  | 18     |
| YCKMTA M80×2.0  | 110 | 97  | 83  | 30 | 95   | 16 | 6.4 | 8  | 3-M8  | 18     |
| YCKMTA M85×2.0  | 115 | 102 | 88  | 32 | 100  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M90×2.0  | 120 | 110 | 93  | 32 | 108  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M95×2.0  | 125 | 114 | 98  | 32 | 113  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M100×2.0 | 130 | 120 | 103 | 32 | 118  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M110×2.0 | 140 | 132 | 112 | 32 | 128  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M120×2.0 | 155 | 142 | 122 | 32 | 140  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M130×3.0 | 165 | 156 | 132 | 32 | 153  | 17 | 6.4 | 8  | 3-M10 | 35     |
| YCKMTA M140×3.0 | 180 | 166 | 142 | 32 | 165  | 17 | 6.4 | 10 | 3-M10 | 35     |
| YCKMTA M150×3.0 | 190 | 180 | 152 | 32 | 175  | 17 | 6.4 | 10 | 3-M10 | 35     |
| YCKMTA M160×3.0 | 205 | 190 | 162 | 32 | 185  | 17 | 8.4 | 10 | 3-M10 | 35     |
| YCKMTA M170×3.0 | 215 | 205 | 172 | 32 | 195  | 17 | 8.4 | 10 | 3-M10 | 35     |
| YCKMTA M180×3.0 | 230 | 215 | 182 | 32 | 210  | 17 | 8.4 | 10 | 3-M10 | 35     |
| YCKMTA M190×3.0 | 240 | 225 | 192 | 32 | 224  | 17 | 8.4 | 10 | 3-M10 | 35     |
| YCKMTA M200×3.0 | 245 | 237 | 202 | 32 | 229  | 17 | 8.4 | 10 | 3-M10 | 35     |

The boss height is 2mm for M35 and below, and 3mm for M40 and above. The depth of all d4 models is 3 millimeters.  
The tooling holes have a positive tolerance.

## Steel Sheet Lock Nut YCG Series

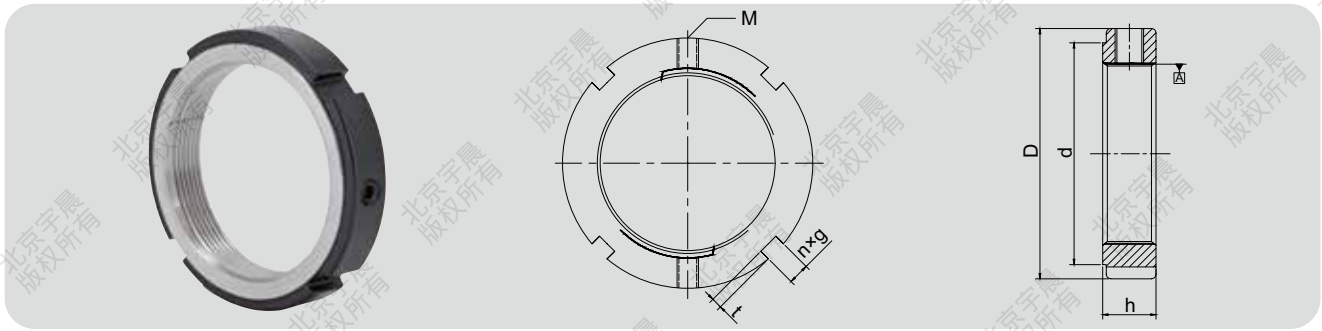


The YCG steel sheet self-locking anti-loosening nut is equipped with a special locking spring steel ring based on engineering principles. When in use, the spring steel ring naturally holds and compresses in the screw groove, having excellent shock-proof and anti-loosening effects. Even with repeated friction, it will not affect the thread and the locking spring steel ring. Its locking ability is not affected when the temperature changes from -30°C to +300°C and under the erosion of various oils (such as gasoline, petroleum, alcohol, etc.).

Material: S45C tempered, S45C not tempered, SUS304

| PartNo | Thread<br>(d*p) | D   |           | d   |            | t      | n×g | h  | H    |      |
|--------|-----------------|-----|-----------|-----|------------|--------|-----|----|------|------|
| YCG 0  | M10×0.75        | 18  | 0<br>-0.5 | 13  | 0<br>-0.5  | 2(1.8) | 3   | 4  | 5.2  | ±0.3 |
| YCG 1  | M12×1.0         | 22  |           | 17  |            | 2(1.8) | 3   | 4  | 5.4  |      |
| YCG 2  | M15×1.0         | 25  |           | 21  |            | 2(1.8) | 4   | 5  | 6.5  | ±0.5 |
| YCG 3  | M17×1.0         | 28  |           | 24  |            | 2(1.9) | 4   | 5  | 6.4  |      |
| YCG 4  | M20×1.0         | 32  |           | 26  |            | 2(1.8) | 4   | 6  | 7.7  |      |
| YCG 5  | M25×1.5         | 38  |           | 32  | 0<br>-0.5  | 2      | 5   | 7  | 9.1  | ±0.8 |
| YCG 6  | M30×1.5         | 45  |           | 38  |            | 2      | 5   | 7  | 9.1  |      |
| YCG 7  | M35×1.5         | 52  |           | 44  |            | 2      | 5   | 8  | 10.2 |      |
| YCG 8  | M40×1.5         | 58  |           | 50  |            | 2.5    | 6   | 9  | 11.2 | ±1.0 |
| YCG 9  | M45×1.5         | 65  |           | 56  | 0<br>-0.5  | 2.5    | 6   | 10 | 12.5 |      |
| YCG 10 | M50×1.5         | 70  |           | 61  |            | 2.5    | 6   | 11 | 13.5 |      |
| YCG 11 | M55×2.0         | 75  |           | 67  |            | 3      | 7   | 11 | 13.5 |      |
| YCG 12 | M60×2.0         | 80  |           | 73  | 0<br>-0.75 | 3      | 7   | 11 | 13.5 | ±1.5 |
| YCG 13 | M65×2.0         | 85  |           | 79  |            | 3      | 7   | 12 | 15   |      |
| YCG 14 | M70×2.0         | 92  |           | 85  |            | 3.5    | 8   | 12 | 15   |      |
| YCG 15 | M75×2.0         | 98  |           | 90  |            | 3.5    | 8   | 13 | 15.8 |      |
| YCG 16 | M80×2.0         | 105 |           | 95  |            | 3.5    | 8   | 15 | 18.6 |      |
| YCG 17 | M85×2.0         | 110 |           | 102 |            | 3.5    | 8   | 16 | 19.2 |      |
| YCG 18 | M90×2.0         | 120 |           | 108 |            | 4      | 10  | 16 | 20.3 |      |
| YCG 19 | M95×2.0         | 125 |           | 113 |            | 4      | 10  | 17 | 21.3 |      |
| YCG 20 | M100×2.0        | 130 |           | 120 |            | 4      | 10  | 18 | 22.3 |      |

## Lock Nut YCE Series

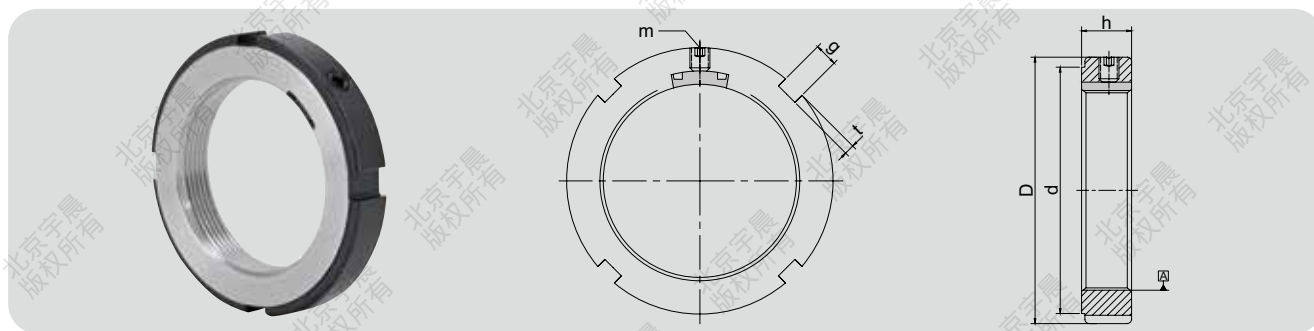


The YCE type nut has a through-thread cutting locking method, adopts two-point symmetrical locking, and the overall thread type is stressed, which has good anti-loosening performance.

Material: 42CrMo/S45C Hardness: HRC 28° - 32° Thread Precision: ISO 4H End Face Runout: 0.002 - 0.005mm

| Thread       | D   | d   | h    | n×g    | t    | M       | Unlocking Torque in Nm | Max Axial load in Newton |         |
|--------------|-----|-----|------|--------|------|---------|------------------------|--------------------------|---------|
| YCE M22×1.5  | 35  | 30  | 12   | 4×4    | 2    | 2-M6    | 94                     | 37 800                   |         |
| YCE M25×1.5  | 40  | 35  |      | 4×5    | 2    |         | 106                    | 48 000                   |         |
| YCE M30×1.5  | 45  | 40  |      |        |      |         | 118                    | 58 000                   |         |
| YCE M32×1.5  | 46  | 41  |      |        |      |         | 130                    | 74 400                   |         |
| YCE M35×1.5  | 50  | 45  |      |        |      |         | 150                    | 77 700                   |         |
| YCE M38×1.5  | 52  | 47  |      |        |      |         | 166                    | 82 000                   |         |
| YCE M40×1.5  | 55  | 49  |      | 4×6    | 2.5  |         | 188                    | 85 200                   |         |
| YCE M42×1.5  | 56  | 50  |      |        |      |         | 210                    | 89 600                   |         |
| YCE M45×1.5  | 60  | 54  |      |        |      |         | 236                    | 100 000                  |         |
| YCE M50×1.5  | 65  | 59  |      |        |      |         | 264                    | 115 600                  |         |
| YCE M52×1.5  | 67  | 61  |      |        |      |         | 294                    | 120 400                  |         |
| YCE M55×2.0  | 75  | 68  |      | 15     | 4×7  |         | 3                      | 1024                     | 144 800 |
| YCE M60×2.0  | 80  | 73  | 1064 |        |      | 158 300 |                        |                          |         |
| YCE M65×2.0  | 85  | 78  | 1120 |        |      | 178100  |                        |                          |         |
| YCE M70×2.0  | 90  | 82  | 4×8  |        | 3.5  | 1174    | 192 100                |                          |         |
| YCE M75×2.0  | 95  | 87  |      |        |      | 1230    | 209 000                |                          |         |
| YCE M80×2.0  | 105 | 97  |      |        |      | 1300    | 228 000                |                          |         |
| YCE M85×2.0  | 110 | 102 | 4×10 |        | 4    | 1350    | 245 800                |                          |         |
| YCE M90×2.0  | 115 | 106 |      |        |      | 1426    | 265 800                |                          |         |
| YCE M95×2.0  | 120 | 111 |      |        |      | 1500    | 280 800                |                          |         |
| YCE M100×2.0 | 125 | 116 | 4×12 |        | 5    | 1580    | 295 800                |                          |         |
| YCE M105×2.0 | 130 | 119 |      |        |      | 1660    | 310 800                |                          |         |
| YCE M110×2.0 | 135 | 124 |      |        |      | 1740    | 325 700                |                          |         |
| YCE M115×2.0 | 140 | 129 |      |        |      | 1860    | 345 200                |                          |         |
| YCE M120×2.0 | 145 | 134 |      |        |      | 1920    | 362 800                |                          |         |
| YCE M125×2.0 | 150 | 139 |      |        |      | 2080    | 383 000                |                          |         |
| YCE M130×2.0 | 155 | 144 | 20   |        | 4×14 | 6       | 2-M8                   | > 4000                   | 406 200 |
| YCE M135×2.0 | 165 | 152 |      |        |      |         | 2-M10                  | > 4000                   | 633 000 |
| YCE M140×2.0 | 170 | 157 |      |        |      |         | > 4000                 | 660 800                  |         |
| YCE M145×2.0 | 175 | 162 |      | > 4000 |      |         | 684 600                |                          |         |
| YCE M150×2.0 | 180 | 167 |      | > 4000 |      |         | 712 900                |                          |         |

## Lock Nut YCKMK Series



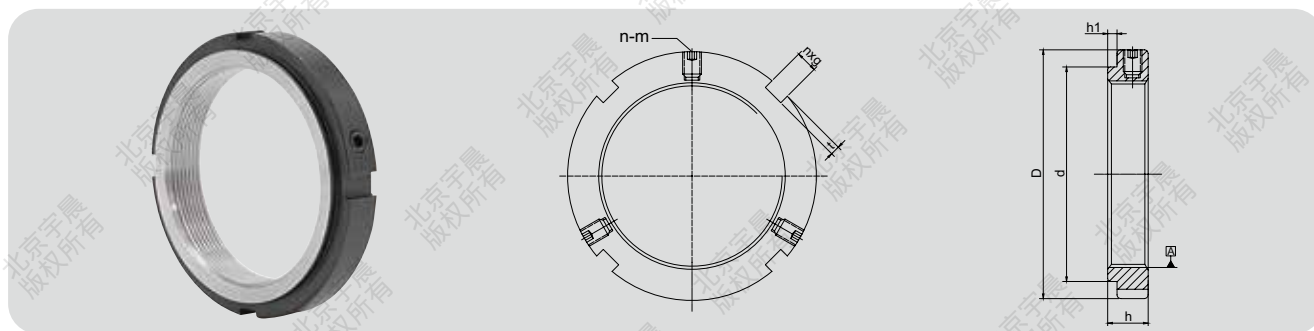
The YCKMK series of precision lock nuts have a threaded wedge embedded in their inner holes, which can lock the nut at a specific position on the shaft or adapter sleeve. It is suitable for positioning bearings in application conditions with not very strict requirements. However, it cannot be applied to shafts or adapter sleeves with keyways. If it is opposite to the keyway, it may cause the wedge to be damaged.

Material: 42CrMo/S45C Hardness: HRC 28° - 32° Thread Precision: ISO 4H End Face Runout: 0.002 - 0.005mm

| Thread         | D   | d   | h  | g  | t   | m   | Max.Nm |
|----------------|-----|-----|----|----|-----|-----|--------|
| YCKMK M10×0.75 | 20  | 16  | 9  | 3  | 2   | M5  | 4.5    |
| YCKMK M12×1.0  | 22  | 18  | 9  | 3  | 2   | M5  | 4.5    |
| YCKMK M15×1.0  | 25  | 21  | 9  | 4  | 2   | M5  | 4.5    |
| YCKMK M17×1.0  | 28  | 24  | 9  | 4  | 2   | M5  | 4.5    |
| YCKMK M20×1.0  | 32  | 28  | 9  | 4  | 2   | M5  | 4.5    |
| YCKMK M25×1.5  | 38  | 34  | 9  | 5  | 2   | M5  | 4.5    |
| YCKMK M30×1.5  | 45  | 41  | 9  | 5  | 2   | M5  | 4.5    |
| YCKMK M35×1.5  | 52  | 48  | 9  | 5  | 2   | M5  | 4.5    |
| YCKMK M40×1.5  | 58  | 53  | 11 | 6  | 2.5 | M6  | 8      |
| YCKMK M45×1.5  | 65  | 60  | 11 | 6  | 2.5 | M6  | 8      |
| YCKMK M50×1.5  | 70  | 65  | 15 | 6  | 2.5 | M8  | 18     |
| YCKMK M55×2.0  | 75  | 69  | 15 | 7  | 3   | M8  | 18     |
| YCKMK M60×2.0  | 80  | 74  | 15 | 7  | 3   | M8  | 18     |
| YCKMK M65×2.0  | 85  | 79  | 14 | 7  | 3   | M8  | 18     |
| YCKMK M70×2.0  | 92  | 85  | 14 | 8  | 3.5 | M8  | 18     |
| YCKMK M75×2.0  | 98  | 91  | 14 | 8  | 3.5 | M8  | 18     |
| YCKMK M80×2.0  | 105 | 98  | 18 | 8  | 3.5 | M10 | 35     |
| YCKMK M85×2.0  | 110 | 103 | 18 | 8  | 3.5 | M10 | 35     |
| YCKMK M90×2.0  | 120 | 112 | 18 | 10 | 4   | M10 | 35     |
| YCKMK M95×2.0  | 125 | 117 | 20 | 10 | 4   | M10 | 35     |
| YCKMK M100×2.0 | 130 | 122 | 20 | 10 | 4   | M10 | 35     |

Non-standard nuts can be customized

## Radial Lock Nut YCMR Series



The YCMR series lock nuts use three high-strength bolts in the three blind holes of their radial outer circle. By tightening these three bolts, the nut thread is deformed and tightly pressed on the shaft or external thread. The resulting friction force is sufficient to lock the nut in place. When loosening the bolts, use a copper rod to tap above the fixing bolts, and the nut thread will return to its initial shape. As long as there is no damage, it can be reused. The YCMR series lock nuts cannot be applied to shafts with keyways. If the locking screws are aligned with the keyways, the nut may be damaged.

Easy to disassemble: 1. When disassembling the lock nut, first loosen the three high-strength bolts; 2. Tap above the fixing bolts with a copper rod; 3. Use a hook wrench to loosen the lock nut.

Material: S45C Thread Precision: ISO 4H End Face Runout: 0.002 - 0.005mm

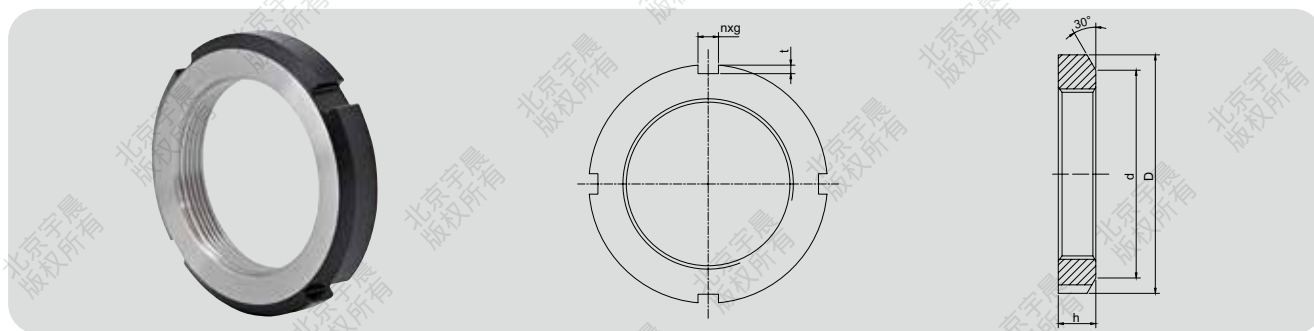
| Thread       | D  | d    | h    | h1 | n×g | t   | n-m  | Max.Nm |
|--------------|----|------|------|----|-----|-----|------|--------|
| YCMR M20×1.0 | 32 | 26   | 9.5  | 1  | 4×4 | 2   | 3-M5 | 4.5    |
| YCMR M25×1.5 | 38 | 30   | 10.5 | 2  | 4×5 | 2   | 3-M5 | 4.5    |
|              | 38 | 31   | 10.5 | 2  | 4×5 | 2   | 3-M5 | 4.5    |
| YCMR M30×1.5 | 45 | 36   | 10.5 | 2  | 4×5 | 2   | 3-M5 | 4.5    |
| YCMR M35×1.5 | 52 | 41.5 | 11.5 | 3  | 4×5 | 2   | 3-M5 | 4.5    |
|              | 52 | 42.5 | 11.5 | 3  | 4×5 | 2   | 3-M5 | 4.5    |
| YCMR M40×1.5 | 58 | 47   | 13   | 3  | 4×6 | 2.5 | 3-M6 | 8      |
|              | 58 | 47.5 | 13   | 3  | 4×6 | 2.5 | 3-M6 | 8      |
| YCMR M45×1.5 | 65 | 53   | 13   | 3  | 4×6 | 2.5 | 3-M6 | 8      |
|              | 65 | 54.5 | 13   | 3  | 4×6 | 2.5 | 3-M6 | 8      |
| YCMR M50×1.5 | 70 | 57.5 | 14   | 3  | 4×6 | 2.5 | 3-M6 | 8      |
|              | 70 | 61.5 | 14   | 3  | 4×6 | 2.5 | 3-M6 | 8      |
| YCMR M55×2.0 | 75 | 64   | 14   | 3  | 4×7 | 3   | 3-M6 | 8      |
|              | 75 | 67   | 14   | 3  | 4×7 | 3   | 3-M6 | 8      |
| YCMR M60×2.0 | 80 | 69   | 14   | 3  | 4×7 | 3   | 3-M6 | 8      |
| YCMR M65×2.0 | 85 | 71.5 | 15   | 3  | 4×7 | 3   | 3-M6 | 8      |
|              | 85 | 76   | 15   | 3  | 4×7 | 3   | 3-M6 | 8      |
|              | 85 | 77.5 | 15   | 3  | 4×7 | 3   | 3-M6 | 8      |
| YCMR M70×2.0 | 92 | 79   | 15   | 3  | 4×8 | 3.5 | 3-M6 | 8      |
| YCMR M75×2.0 | 98 | 81.5 | 16   | 3  | 4×8 | 3.5 | 3-M6 | 8      |
|              | 98 | 85   | 16   | 3  | 4×8 | 3.5 | 3-M6 | 8      |
|              | 98 | 87.5 | 16   | 3  | 4×8 | 3.5 | 3-M6 | 8      |

## Radial Lock Nut YCMR Series

| Thread        | D   | d    | h    | h1 | n×g  | t   | n-m   | Max.Nm |
|---------------|-----|------|------|----|------|-----|-------|--------|
| YCMR M80×2.0  | 105 | 91.5 | 18   | 3  | 4×8  | 3.5 | 3-M8  | 18     |
|               | 105 | 93   | 18   | 3  | 4×8  | 3.5 | 3-M8  | 18     |
| YCMR M85×2.0  | 110 | 98   | 19   | 4  | 4×8  | 3.5 | 3-M8  | 18     |
| YCMR M90×2.0  | 120 | 102  | 19   | 4  | 4×10 | 4   | 3-M8  | 18     |
| YCMR M95×2.0  | 125 | 108  | 20   | 4  | 4×10 | 4   | 3-M8  | 18     |
|               | 125 | 110  | 20   | 4  | 4×10 | 4   | 3-M8  | 18     |
| YCMR M100×2.0 | 130 | 110  | 21   | 4  | 4×10 | 4   | 3-M8  | 18     |
|               | 130 | 112  | 21   | 4  | 4×10 | 4   | 3-M8  | 18     |
| YCMR M110×2.0 | 145 | 119  | 21.5 | 4  | 4×12 | 5   | 3-M8  | 18     |
|               | 145 | 122  | 21.5 | 4  | 4×12 | 5   | 3-M8  | 18     |
|               | 145 | 124  | 21.5 | 4  | 4×12 | 5   | 3-M8  | 18     |
| YCMR M120×2.0 | 155 | 130  | 26   | 6  | 4×12 | 5   | 3-M10 | 35     |
|               | 155 | 132  | 26   | 6  | 4×12 | 5   | 3-M10 | 35     |
| YCMR M130×2.0 | 165 | 140  | 28   | 7  | 4×12 | 5   | 3-M10 | 35     |
|               | 165 | 141  | 28   | 7  | 4×12 | 5   | 3-M10 | 35     |
| YCMR M140×2.0 | 180 | 151  | 28   | 7  | 4×14 | 6   | 3-M10 | 35     |
|               | 180 | 152  | 28   | 7  | 4×14 | 6   | 3-M10 | 35     |
| YCMR M150×2.0 | 195 | 162  | 30   | 9  | 4×14 | 6   | 3-M10 | 35     |
| YCMR M160×3.0 | 210 | 173  | 32   | 11 | 4×16 | 7   | 3-M10 | 35     |
| YCMR M170×3.0 | 220 | 184  | 33   | 12 | 4×16 | 7   | 3-M10 | 35     |
| YCMR M180×3.0 | 230 | 194  | 34   | 12 | 4×18 | 8   | 3-M10 | 35     |
| YCMR M190×3.0 | 240 | 207  | 34   | 12 | 4×18 | 8   | 3-M10 | 35     |
| YCMR M200×3.0 | 250 | 217  | 34   | 12 | 4×18 | 8   | 3-M10 | 35     |

Non-standard nuts can be customized

## Nut AN Series



The AN type nut is suitable for working conditions without anti-loosening requirements. It is widely used because of its easy installation.

Material: 42CrMo/S45C Hardness: HRC 24° - 30° Thread Precision: ISO 4H End Face Runout: 0.002 - 0.005mm

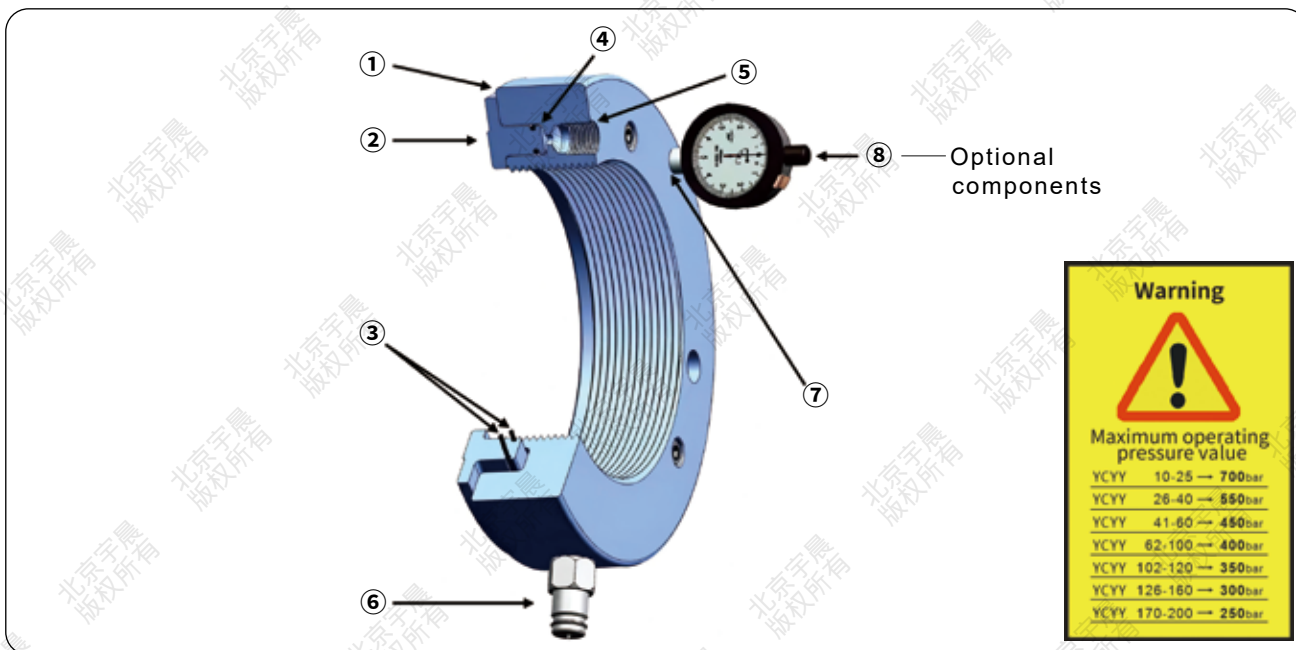
| Thread      | D   | d    | n×g  | t   | h  |
|-------------|-----|------|------|-----|----|
| AN M10×0.75 | 18  | 13.5 | 4×3  | 2   | 4  |
| AN M12×1.0  | 22  | 17   | 4×3  | 2   | 4  |
| AN M15×1.0  | 25  | 21   | 4×4  | 2   | 5  |
| AN M17×1.0  | 28  | 24   | 4×4  | 2   | 5  |
| AN M20×1.0  | 32  | 26   | 4×4  | 2   | 6  |
| AN M25×1.5  | 38  | 32   | 4×5  | 2   | 7  |
| AN M30×1.5  | 45  | 38   | 4×5  | 2   | 7  |
| AN M35×1.5  | 52  | 44   | 4×5  | 2   | 8  |
| AN M40×1.5  | 58  | 50   | 4×6  | 2.5 | 9  |
| AN M45×1.5  | 65  | 56   | 4×6  | 2.5 | 10 |
| AN M50×1.5  | 70  | 61   | 4×6  | 2.5 | 11 |
| AN M55×2.0  | 75  | 67   | 4×7  | 3   | 11 |
| AN M60×2.0  | 80  | 73   | 4×7  | 3   | 11 |
| AN M65×2.0  | 85  | 79   | 4×7  | 3   | 12 |
| AN M70×2.0  | 92  | 85   | 4×8  | 3.5 | 12 |
| AN M75×2.0  | 98  | 90   | 4×8  | 3.5 | 13 |
| AN M80×2.0  | 105 | 95   | 4×8  | 3.5 | 15 |
| AN M85×2.0  | 110 | 102  | 4×8  | 3.5 | 16 |
| AN M90×2.0  | 120 | 108  | 4×10 | 4   | 16 |
| AN M95×2.0  | 125 | 113  | 4×10 | 4   | 17 |
| AN M100×2.0 | 130 | 120  | 4×10 | 4   | 18 |
| AN M105×2.0 | 140 | 126  | 4×12 | 5   | 18 |
| AN M110×2.0 | 145 | 133  | 4×12 | 5   | 19 |
| AN M115×2.0 | 150 | 137  | 4×12 | 5   | 19 |
| AN M120×2.0 | 155 | 138  | 4×12 | 5   | 20 |
| AN M125×2.0 | 160 | 148  | 4×12 | 5   | 21 |
| AN M130×2.0 | 165 | 149  | 4×12 | 5   | 21 |
| AN M135×2.0 | 175 | 160  | 4×14 | 6   | 22 |
| AN M140×2.0 | 180 | 160  | 4×14 | 6   | 22 |
| AN M145×2.0 | 190 | 172  | 4×14 | 6   | 24 |
| AN M150×2.0 | 195 | 171  | 4×14 | 6   | 24 |
| AN M155×3.0 | 200 | 182  | 4×16 | 7   | 25 |
| AN M160×3.0 | 210 | 182  | 4×16 | 7   | 25 |
| AN M165×3.0 | 210 | 193  | 4×16 | 7   | 26 |
| AN M170×3.0 | 220 | 193  | 4×16 | 7   | 26 |
| AN M180×3.0 | 230 | 203  | 4×18 | 8   | 27 |
| AN M190×3.0 | 240 | 214  | 4×18 | 8   | 28 |
| AN M200×3.0 | 250 | 226  | 4×18 | 8   | 29 |

Non-standard nuts can be customized

# Hydraulic Nuts



## Operating Principle



Hydraulic nut component diagram

The hydraulic nut can significantly reduce the working intensity and improve the working efficiency when installing or disassembling rolling bearings with tapered holes. It consists of two main components: the main body ① with internal threads and a groove on one side, and the annular piston ② installed in the groove. The seals between these two parts are two O-rings ③.

When high-pressure oil is pumped into the oil chamber ④, the piston will release a huge force pushed by the high oil pressure, which is sufficient for installing and disassembling rolling bearings. There is a threaded-free hole ⑦ on the outer steel ring for installing the dial indicator ⑧. The measuring needle of the dial indicator is closely attached to the piston shoulder to measure its axial displacement. There are two threaded holes on the steel ring of the hydraulic nut for installing quick connectors to connect the high-pressure oil pipe of the hydraulic pump: one ⑥ is located on the outside of the steel ring, and the other ⑤ is located on the outer circular surface. Unused holes must be plugged with the bolts provided with the hydraulic nut. For the holes that need to be connected to the high-pressure oil pipe, the quick connectors provided with the hydraulic nut must be installed. In addition, the standard configuration of the hydraulic nut also includes a set of spare O-rings and two small iron rods for tightening the hydraulic nut.

## Maintenance - Upkeep

- ① When the hydraulic nut is not in use, it is necessary to prevent contamination by debris. The interface of the high-pressure oil pipe should be screwed with bolts to prevent dirt from entering.
- ② When the piston is working, if the hydraulic nut leaks oil, it indicates that the seal is damaged and needs to be replaced. When replacing the seal, the piston needs to be pressed out of the steel ring. For ease of operation, the three auxiliary holes on the outer surface of the steel ring that are usually plugged with bolts can be utilized. Unscrew these three bolts and use the long bolt provided with the hydraulic nut, and the piston can be pushed out of the steel ring (see Figure A). Remove the O-ring, replace it with a new one, clean the groove. If necessary, a little grease can be used for lubrication during the replacement process, and place the new O-ring in the correct position of the piston.

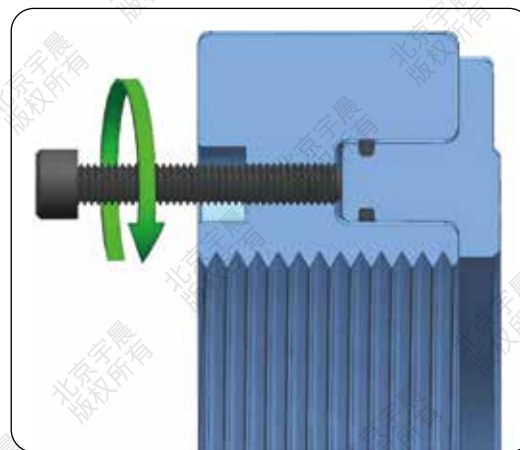


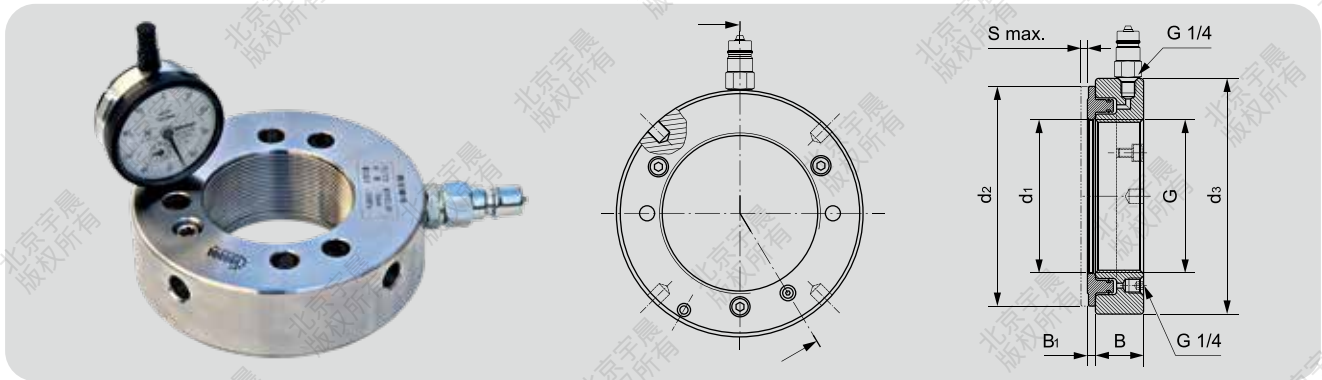
Fig. A. Eject the piston out of the steel ring

⚠ A set of spare O-rings is provided in the standard configuration of the hydraulic nut. If you need to purchase them separately, please contact Beijing Yuchen Company.

## Maintenance parts

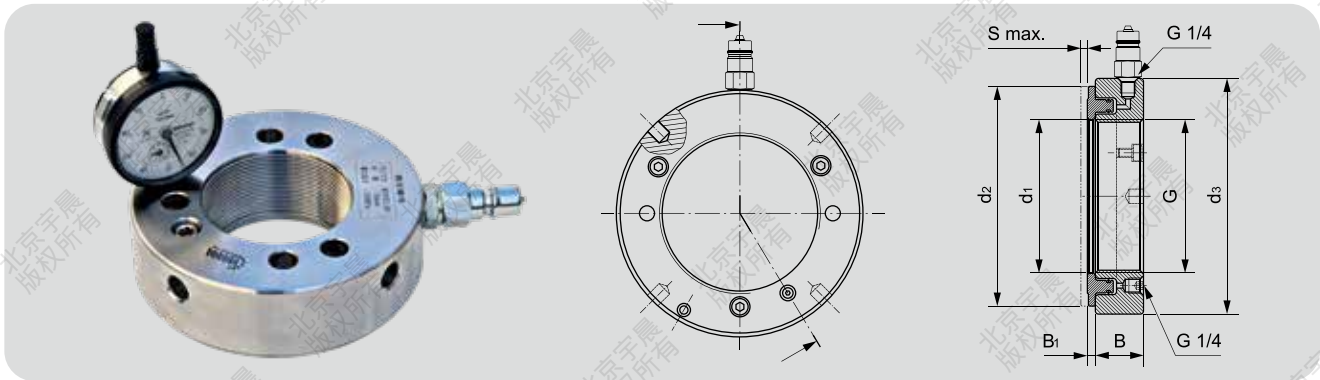
⚠ O-rings (black rubber, green fluororubber), ball plugs, quick connector screws, copper rings.

## Hydraulic Nut YCYY Series



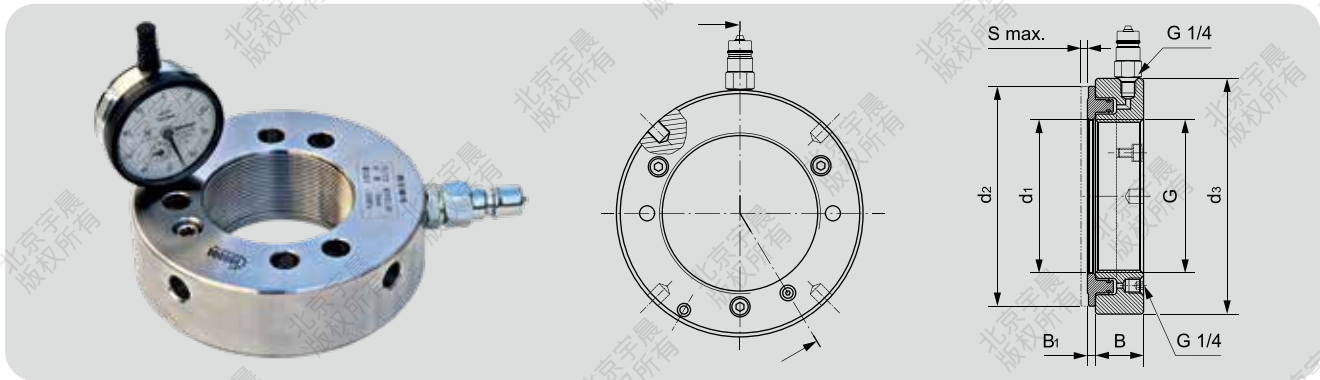
| PartNo  | Dimension |       |     |     |    |    | S max.<br>mm | Piston<br>area<br>mm <sup>2</sup> |
|---------|-----------|-------|-----|-----|----|----|--------------|-----------------------------------|
|         | G         | d1    | d2  | d3  | B  | B1 |              |                                   |
|         | Thread    | mm    | mm  | mm  | mm | mm |              |                                   |
| YCYY-6  | M30×1.5   | 30.5  | 84  | 94  | 38 | 5  | 5            | 2,300                             |
| YCYY-7  | M35×1.5   | 35.5  | 89  | 99  | 38 | 5  | 5            | 2,500                             |
| YCYY-8  | M40×1.5   | 40.5  | 94  | 104 | 38 | 5  | 5            | 2,700                             |
| YCYY-9  | M45×1.5   | 45.5  | 99  | 109 | 38 | 5  | 5            | 2,700                             |
| YCYY-10 | M50×1.5   | 50.5  | 104 | 114 | 38 | 5  | 5            | 2,900                             |
| YCYY-11 | M55×2.0   | 55.5  | 109 | 120 | 38 | 5  | 5            | 3,150                             |
| YCYY-12 | M60×2.0   | 60.5  | 115 | 125 | 38 | 5  | 5            | 3,300                             |
| YCYY-13 | M65×2.0   | 65.5  | 121 | 130 | 38 | 5  | 5            | 3,600                             |
| YCYY-14 | M70×2.0   | 70.5  | 127 | 135 | 38 | 5  | 5            | 3,800                             |
| YCYY-15 | M75×2.0   | 75.5  | 132 | 140 | 38 | 5  | 5            | 4,000                             |
| YCYY-16 | M80×2.0   | 80.5  | 137 | 146 | 38 | 5  | 5            | 4,200                             |
| YCYY-17 | M85×2.0   | 85.5  | 142 | 150 | 38 | 5  | 5            | 4,400                             |
| YCYY-18 | M90×2.0   | 90.5  | 147 | 156 | 38 | 5  | 5            | 4,700                             |
| YCYY-19 | M95×2.0   | 95.5  | 153 | 162 | 38 | 5  | 5            | 4,900                             |
| YCYY-20 | M100×2.0  | 100.5 | 158 | 166 | 38 | 6  | 5            | 5,100                             |
| YCYY-21 | M105×2.0  | 105.5 | 163 | 172 | 38 | 6  | 5            | 5,300                             |
| YCYY-22 | M110×2.0  | 110.5 | 169 | 178 | 38 | 6  | 5            | 5,600                             |
| YCYY-23 | M115×2.0  | 115.5 | 174 | 182 | 38 | 6  | 5            | 5,800                             |
| YCYY-24 | M120×2.0  | 120.5 | 179 | 188 | 38 | 6  | 5            | 6,000                             |
| YCYY-25 | M125×2.0  | 125.5 | 184 | 192 | 38 | 6  | 5            | 6,200                             |
| YCYY-26 | M130×2.0  | 130.5 | 190 | 198 | 38 | 6  | 5            | 6,400                             |
| YCYY-27 | M135×2.0  | 135.5 | 195 | 204 | 38 | 6  | 5            | 6,600                             |
| YCYY-28 | M140×2.0  | 140.5 | 200 | 208 | 38 | 7  | 5            | 6,800                             |
| YCYY-29 | M145×2.0  | 145.5 | 206 | 214 | 39 | 7  | 5            | 7,300                             |
| YCYY-30 | M150×2.0  | 150.5 | 211 | 220 | 39 | 7  | 5            | 7,500                             |
| YCYY-31 | M155×3.0  | 155.5 | 218 | 226 | 39 | 7  | 5            | 8,100                             |
| YCYY-32 | M160×3.0  | 160.5 | 224 | 232 | 40 | 7  | 6            | 8,600                             |
| YCYY-33 | M165×3.0  | 165.5 | 229 | 238 | 40 | 7  | 6            | 8,900                             |
| YCYY-34 | M170×3.0  | 170.5 | 235 | 244 | 41 | 7  | 6            | 9,400                             |
| YCYY-36 | M180×3.0  | 180.5 | 247 | 256 | 41 | 7  | 6            | 10,300                            |

## Hydraulic Nut YCYY Series



| PartNo  | Dimension |     |     |     |    |    | S max.<br>mm | Piston<br>area<br>mm <sup>2</sup> |
|---------|-----------|-----|-----|-----|----|----|--------------|-----------------------------------|
|         | G         | d1  | d2  | d3  | B  | B1 |              |                                   |
|         | Thread    | mm  | mm  | mm  | mm | mm |              |                                   |
| YCYY-38 | M190×3.0  | 191 | 259 | 270 | 42 | 8  | 7            | 11,500                            |
| YCYY-40 | M200×3.0  | 201 | 271 | 282 | 43 | 8  | 8            | 12,500                            |
| YCYY-41 | Tr205×4.0 | 207 | 276 | 288 | 43 | 8  | 8            | 12,800                            |
| YCYY-42 | Tr210×4.0 | 212 | 282 | 294 | 44 | 8  | 9            | 13,400                            |
| YCYY-43 | Tr215×4.0 | 217 | 287 | 300 | 44 | 8  | 9            | 13,700                            |
| YCYY-44 | Tr220×4.0 | 222 | 293 | 306 | 44 | 8  | 9            | 14,400                            |
| YCYY-45 | Tr225×4.0 | 227 | 300 | 312 | 45 | 8  | 9            | 15,200                            |
| YCYY-46 | Tr230×4.0 | 232 | 305 | 318 | 45 | 8  | 9            | 15,500                            |
| YCYY-47 | Tr235×4.0 | 237 | 311 | 326 | 46 | 8  | 10           | 16,200                            |
| YCYY-48 | Tr240×4.0 | 242 | 316 | 330 | 46 | 9  | 10           | 16,500                            |
| YCYY-50 | Tr250×4.0 | 252 | 329 | 342 | 46 | 9  | 10           | 17,600                            |
| YCYY-52 | Tr260×4.0 | 262 | 341 | 356 | 47 | 9  | 11           | 18,800                            |
| YCYY-54 | Tr270×4.0 | 272 | 352 | 368 | 48 | 9  | 12           | 19,800                            |
| YCYY-56 | Tr280×4.0 | 282 | 363 | 380 | 49 | 9  | 12           | 21,100                            |
| YCYY-58 | Tr290×4.0 | 292 | 375 | 390 | 49 | 9  | 13           | 22,400                            |
| YCYY-60 | Tr300×4.0 | 302 | 386 | 404 | 51 | 10 | 14           | 23,600                            |
| YCYY-62 | Tr310×5.0 | 312 | 397 | 416 | 52 | 10 | 14           | 24,900                            |
| YCYY-64 | Tr320×5.0 | 322 | 409 | 428 | 53 | 10 | 14           | 26,300                            |
| YCYY-66 | Tr330×5.0 | 332 | 419 | 438 | 53 | 10 | 14           | 27,000                            |
| YCYY-68 | Tr340×5.0 | 342 | 430 | 450 | 54 | 10 | 14           | 28,400                            |
| YCYY-69 | Tr345×5.0 | 347 | 436 | 456 | 54 | 10 | 14           | 29,400                            |
| YCYY-70 | Tr350×5.0 | 352 | 442 | 464 | 56 | 10 | 14           | 29,900                            |
| YCYY-72 | Tr360×5.0 | 362 | 455 | 472 | 56 | 10 | 15           | 31,300                            |
| YCYY-73 | Tr365×5.0 | 367 | 460 | 482 | 57 | 11 | 15           | 31,700                            |
| YCYY-74 | Tr370×5.0 | 372 | 466 | 486 | 57 | 11 | 16           | 32,800                            |
| YCYY-76 | Tr380×5.0 | 382 | 476 | 498 | 58 | 11 | 16           | 33,500                            |
| YCYY-77 | Tr385×5.0 | 387 | 483 | 504 | 58 | 11 | 16           | 34,700                            |
| YCYY-80 | Tr400×5.0 | 402 | 499 | 522 | 60 | 11 | 17           | 36,700                            |
| YCYY-82 | Tr410×5.0 | 412 | 510 | 534 | 61 | 11 | 17           | 38,300                            |
| YCYY-84 | Tr420×5.0 | 422 | 522 | 546 | 61 | 11 | 17           | 40,000                            |

## Hydraulic Nut YCYY Series



| PartNo   | Dimension  |      |      |      |    |    | S max.<br>mm | Piston<br>area<br>mm <sup>2</sup> |
|----------|------------|------|------|------|----|----|--------------|-----------------------------------|
|          | G          | d1   | d2   | d3   | B  | B1 |              |                                   |
|          | Thread     | mm   | mm   | mm   | mm | mm |              |                                   |
| YCYY-86  | Tr430×5.0  | 432  | 532  | 556  | 62 | 11 | 17           | 40,800                            |
| YCYY-88  | Tr440×5.0  | 442  | 543  | 566  | 62 | 12 | 17           | 42,500                            |
| YCYY-90  | Tr450×5.0  | 452  | 554  | 580  | 64 | 12 | 17           | 44,100                            |
| YCYY-92  | Tr460×5.0  | 462  | 565  | 590  | 64 | 12 | 17           | 45,100                            |
| YCYY-94  | Tr470×5.0  | 472  | 576  | 602  | 65 | 12 | 18           | 46,900                            |
| YCYY-96  | Tr480×5.0  | 482  | 587  | 612  | 65 | 12 | 19           | 48,600                            |
| YCYY-98  | Tr490×5.0  | 492  | 597  | 624  | 66 | 12 | 19           | 49,500                            |
| YCYY-100 | Tr500×5.0  | 502  | 609  | 636  | 67 | 12 | 19           | 51,500                            |
| YCYY-102 | Tr510×6.0  | 512  | 624  | 648  | 68 | 12 | 20           | 53,300                            |
| YCYY-104 | Tr520×6.0  | 522  | 634  | 658  | 68 | 13 | 20           | 54,300                            |
| YCYY-106 | Tr530×6.0  | 532  | 645  | 670  | 69 | 13 | 21           | 56,200                            |
| YCYY-108 | Tr540×6.0  | 542  | 657  | 682  | 69 | 13 | 21           | 58,200                            |
| YCYY-110 | Tr550×6.0  | 552  | 667  | 693  | 70 | 13 | 21           | 59,200                            |
| YCYY-114 | Tr570×6.0  | 572  | 689  | 716  | 72 | 13 | 23           | 63,200                            |
| YCYY-116 | Tr580×6.0  | 582  | 699  | 726  | 72 | 13 | 23           | 64,200                            |
| YCYY-120 | Tr600×6.0  | 602  | 721  | 748  | 73 | 13 | 23           | 67,300                            |
| YCYY-126 | Tr630×6.0  | 632  | 754  | 782  | 74 | 14 | 23           | 72,900                            |
| YCYY-130 | Tr650×6.0  | 652  | 775  | 804  | 75 | 14 | 23           | 76,200                            |
| YCYY-134 | Tr670×6.0  | 672  | 796  | 826  | 76 | 14 | 24           | 79,500                            |
| YCYY-138 | Tr690×6.0  | 692  | 819  | 848  | 77 | 14 | 25           | 84,200                            |
| YCYY-142 | Tr710×7.0  | 712  | 840  | 870  | 78 | 15 | 25           | 87,700                            |
| YCYY-150 | Tr750×7.0  | 752  | 883  | 912  | 79 | 15 | 25           | 95,200                            |
| YCYY-160 | Tr800×7.0  | 802  | 936  | 965  | 80 | 16 | 25           | 103,900                           |
| YCYY-170 | Tr850×7.0  | 852  | 990  | 1020 | 83 | 16 | 26           | 114,600                           |
| YCYY-180 | Tr900×7.0  | 902  | 1043 | 1075 | 86 | 17 | 30           | 124,100                           |
| YCYY-190 | Tr950×8.0  | 952  | 1097 | 1126 | 86 | 17 | 30           | 135,700                           |
| YCYY-200 | Tr1000×8.0 | 1002 | 1150 | 1180 | 88 | 17 | 34           | 145,800                           |

Non-standard nuts can be customized

# Detection Equipment

Japan Mitoyo  
Thread Profiler

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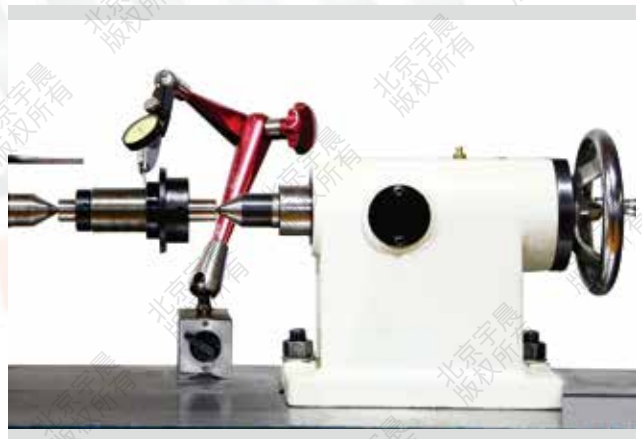
Japan Mitutoyo  
Roughness Tester

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Taiwan Zhengye  
Verticality Detector

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# Installation and Removal

## Nut installation precautions

Yuchen Precision Lock Nut is a nut used to fix precision bearings, which can effectively prevent the bearing from loosening or falling off during operation. When installing Yuchen Precision Lock Nuts, the following details need to be paid attention to to ensure optimal performance:

1. Clean the lock nut with an appropriate industrial cleaning agent before installing the lock nut;
2. Screw the cleaned lock nut into the cleaned male thread or shaft until the lock nut end face fits the workpiece that needs to be pretightened;
3. Use a hook wrench or torque wrench to tighten with rated torque, and the torque value is determined according to the actual needs of customers or the actual torque bearing of the bearing;
4. When pre-tightening the lock nut body, first use an Allen wrench to tighten the locking screw until the locking pin fits the thread, and then tighten the screw in order, the maximum torque value of the locking screw is shown in the product.

**⚠ Important:** When the cleaned nut is screwed into the male thread or shaft, if the screwing feels jerky and stuck, please unscrew the nut immediately, carefully check the male thread and the nut thread for burrs, fine metal chips and other impurities, if any, please clean it immediately. If the inspection is not unscrewed and the nut is not screwed in, it is very likely that the loose nut cannot be unscrewed, and the nut can only be broken violently, which may cause unpredictable damage to the male thread or shaft.

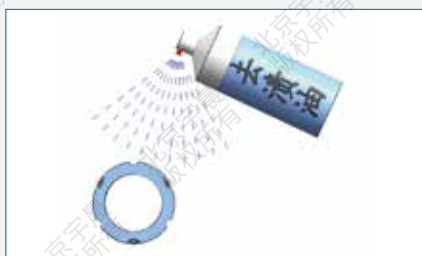
## Nut removal precautions

1. Before disassembling the lock nut, first loosen the locking screw, at this time the locking pin is still in the locked state;
2. Then use a leather hammer or copper rod to gently tap the nut near the locking screw, and loosen the locking pin before unscrewing the nut.

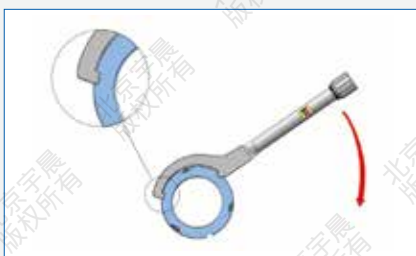
**⚠ Important:** Clean the exposed male thread or shaft and apply a small amount of grease before unscrewing the nut to facilitate unscrewing the nut and also provide some protection for the male thread or shaft.

**⚠** The nut cannot be used as a go-no-go gauge for processing the male thread (except for one-to-one matching turning and grinding).

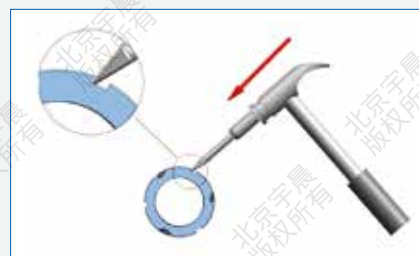
### Precautions for installation of Yuchen precision lock nut



- ✓ Clean the nuts with an appropriate industrial cleaner



- ✓ Use the appropriate tools and wrenches to complete the predetermined load



- ✗ Do not use improper tools to exert force or brute force



北京中物联合认证中心  
质量管理体系认证证书

注册号：06524Q02976R3S

北京宇晨瑞翔精密机械有限公司

统一社会信用代码：9111011168576837XH

注册地址：北京市房山区良乡长虹西路翠柳东街1号-1064

生产经营地址：北京市丰台区城南大道3-905

质量管理体系符合

GB/T19001-2016/ISO9001:2015

证书覆盖业务范围

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CNAS C065-M



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2022版

No: 2217065



CFL CERTIFICATION CENTER  
CERTIFICATION OF QUALITY MANAGEMENT SYSTEM

Registration No: 06524Q02976R3S

**Beijing Yuchen Ruixiang Precision Machinery Co., Ltd.**

Unified social credit code: 9111011168576837XH

Registered Address: No.1 Caillu East Street, Changhong West Road, Liangxiang, Fangshan District, Beijing -1064

Production and Operation Address: 3-905 Chengnan Avenue, Fengtai District, Beijing

Complies with the requirements of

**GB/T19001-2016/ISO9001:2015**

The scope of certification business covers:

Sales of machine tools and accessories

| the 1st qualified identification | the 2nd qualified identification | the 3rd qualified identification |
|----------------------------------|----------------------------------|----------------------------------|
|----------------------------------|----------------------------------|----------------------------------|

There must paste a new certification tag every 12 months from the date when the certificate is granted.  
Otherwise the certificate will be invalid.

Certificate Effective Period: 5 December 2024 to 4 December 2027

Certificate Issue Date: 5 December 2024



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of the P.R.C website: [www.cnca.gov.cn](http://www.cnca.gov.cn)

Version 2022

No:2217065



**Beijing Yuchen Ruixiang Precision Machinery Co., Ltd.**

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 E-mail: ycrxjx@126.com

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**Yuchen Machinery Wuhu Factory**

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 Xinwu Economic Development Zone,  
 Wuhu City, Anhui Province  
 TEL: 177 5171 6475

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