

Heavy-Duty Lock Nut



Please order according to the diagram

①~② Select the-Type and parameters in the order of for ordering

Model(①Code) — ②M
UQOQO — M8



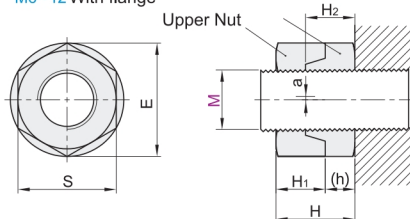
Price Excluding Tax (Yuan)

Discounted Price		
Quantity	1~9	10~
Price	100%	Separate Quotation

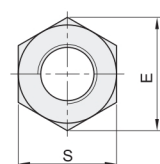


CAD 2D/3D

M6~12 With flange



M14/16 Without Flange



① a: Eccentricity

Code	Type	Material	Surface Treatment
UQOQO	Heavy-Duty Lock Nut	SS400	Chromate Gloss Finish
UQOQP		SUS304	—

Structure and Function of Heavy-Duty Lock Nut

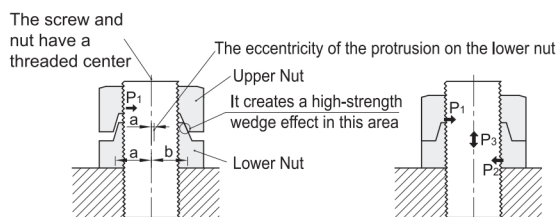


Fig. 1

Fig. 2

① Hardlock Nut

① Note:

- Manufacture screws or guide shafts according to thread accuracy JIS6g (Grade 2). Incompatibility in thread accuracy may result in incompatibility with the lock nut. During assembly, structural factors may cause eccentricity or gaps in the outer diameters of the upper and lower nuts, but this does not affect usability.
- (Fig. 1) Tightening the upper nut automatically applies stress in the direction of the P1 arrow. As shown in (Fig. 2), the horizontal stress continues to increase proportionally to the tightening amount until tight contact with the nut is achieved. The wedge effect ensures complete locking.
- (Fig. 2) Due to the combined internal stress after tightening in the form of P1+P2+P3, it can withstand external impacts.

Model		Thread pitch	S	E	Upper Nut		Lower Nut		Component Height H	(h)	Net weight (g)
Code	M				H1	Tolerance	H2	Tolerance			
UQOQO UQOQP	6	1.0	10	11.5	5	$\begin{smallmatrix} 0 \\ -0.32 \end{smallmatrix}$	5	$\begin{smallmatrix} 0 \\ -0.32 \end{smallmatrix}$	8	3	5
	8	1.25	13	15	6.5		6.5		10.6	4.1	9
	10	1.5	17	19.6	8	$\begin{smallmatrix} 0 \\ -0.6 \end{smallmatrix}$	8	$\begin{smallmatrix} 0 \\ -0.6 \end{smallmatrix}$	13.2	5.2	18
	12	1.75	19	21.9	9.3		10		16	7	26
	14	2.0	22	25.4	11	$\begin{smallmatrix} 0 \\ -0.7 \end{smallmatrix}$	11	$\begin{smallmatrix} 0 \\ -0.7 \end{smallmatrix}$	18.5	7.5	39
	16		24	27.7			13	$\begin{smallmatrix} 0 \\ -0.7 \end{smallmatrix}$	22.5	9.5	53

Reference Tightening Torque Values

M	Lower Nut						Upper Nut
	Reference Tightening Torque Values(N·m)						Universal Material
	SS400	S45C	SCM435	SUS304			Tightening Torque (N·m)
	4.8(320N/mm ²)	8.8(640N/mm ²)	10.9(900N/mm ²)	50(210N/mm ²)	70(450N/mm ²)		
6	2.3 ~ 6	—	—	1.5 ~ 4	3.3 ~ 9		4 ~ 5
8	5.6 ~ 15	11.2 ~ 30	15.8 ~ 42	3.7 ~ 10	7.9 ~ 21		9 ~ 13
10	11 ~ 30	22 ~ 59	31 ~ 84	7 ~ 20	16 ~ 42		18 ~ 24
12	19 ~ 52	39 ~ 104	55 ~ 146	13 ~ 34	27 ~ 73		27 ~ 39
14	31 ~ 82	62 ~ 165	87 ~ 232	20 ~ 54	44 ~ 116		40 ~ 58
16	48 ~ 129	97 ~ 257	136 ~ 362	32 ~ 84	68 ~ 181		70 ~ 100