

Precision Lock Nuts / Hook Spanners for Bearing Nuts

Bearing Lock Nuts Square / Hexagon

Precision Lock Nuts

Type	Perpendicularity
PLNY (Standard)	⊥ 0.005 A
PLN (High-Grade)	⊥ 0.002 A

Component	Material	Hardness	Surface Treatment
Main Body	SCM440	28~32HRC	Black Oxide
Set Screw	SCM435	35~40HRC	Black Oxide
Locking Metal (*)	Phosphor Bronze	-	-

Screw Accuracy ISO Class 4H
* Locking metal is the metal at the tip portion of set screw.

Part Number Type	M	MxPitch (Fine)	D	d	B	S	T	m	Perpendicularity of End Face (Max.)	Max. Tightening Torque (N·m) Set Screw	Unit Price	
											PLNY	PLN
(Standard) PLNY	8	8x0.75	16	11	8	3	2	2xM4	-PLNY 0.005	3.5		
	10	10x1.0	18	13								
	12	12x1.0	20	16								
	15	15x1.0	25	21								
	17	17x1.0	28	23								
	20	20x1.0	32	27								
	(High-Grade) PLN	25	25x1.5	38	33	10	4	3xM5	-PLN 0.002	8.0		
		30	30x1.5	45	40							
		35	35x1.5	52	47							
		40	40x1.5	58	52							
		45	45x1.5	65	59							
		50	50x1.5	70	64							
55	55x2.0	75	68	14	6	2.5	3xM6	18.0				
60	60x2.0	80	73						16	7	3	3xM8

Ordering Example
Part Number
PLNY8

Hook Spanners for Bearing Nuts

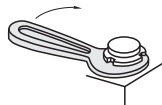
Material: Chrome Vanadium Steel
Surface Treatment: Cathodic Electrodeposition Paint

* For No. 30 or smaller sizes, there are no tabs on R1 part.

Part Number Type	No.	R1	R2	B	C	θ	T	H	L	Shaft Dia.	Round Nut / Bearing Nut	Unit Price	Volume Discount Rate								
												1 ~ 9 pc(s).	10 ~ 50 pcs.								
MFK	16	8	10	1.5	2	30°	4	11	108	Ø16, Ø18	M8, M10										
	20	10	11																		
	25	12.5	14																		
	30	15	16																		
	34	17	19																		
	45	22.5	24																		
	52	26	27.5	2.5	2.5	35°	6.5	41	208	Ø30, Ø32	M20										
	58	29	32.5																		
	65	32.5	35																		
	70	35	37.5																		
												3.5	3		8.5	46	232	Ø58, Ø65	M40, M45		
																				3.5	

Ordering Example
Part Number
MFK25

Example
Use a wrench matching the diameter of the nut.
Do not hit the stem with a hammer, etc.
Do not insert a pipe when using.



Square

Type	Coarse	Fine	Material	Hardness	Surface Treatment	Accessory
BNG	BNR	SS400	-	Black Oxide	Set Piece (Copper Alloy)	Set Screw (SCM435)
BNGC	BNRC	S45C Thermal Refined	22~28HRC	Black Oxide	Set Piece (Copper Alloy)	Set Screw (SCM435)
BNGS	BNRS	SUS304	-	-	-	Set Screw (SUS304)

Tighten the set screw after inserting the set piece.
For Set Piece (SEPNS) Specifications, see P.2-212
S45C Thermal Refined excels in durability.

Part Number Type	M	MxPitch		D	d	F	B	C	S	m	Coarse Thread Unit Price			Fine Thread Unit Price			
		Coarse	Fine								BNG	BNGC	BNGS	BNR	BNRC	BNRS	
(Coarse) BNG, BNGC, BNGS	3	M3x0.5	M3x0.35	11.5	4	10	5.5	3	0.5	M3x3 (With Set Piece)							
	4	M4x0.7	M4x0.5														
	5	M5x0.8	M5x0.5														
	(Fine) BNR, BNRC, BNRS	6	M6x1.0	M6x0.75	14.5	10	12	8	5	1	M4x4 (With Set Piece)						
		8	M8x1.25	M8x1.0													
		10	M10x1.5	M10x1.0													
			12	M12x1.75	M12x1.0	22	17	19	25	16	2	M5x5 (With Set Piece)					
			15	-	M15x1.0												
			16	M16x2.0	-	25	21	22	10	6	1	M6x6 (With Set Piece)					
	17		-	M17x1.0													
	20		M20x2.5	M20x1.0	35	26	30	13	8	2	M5x5 (With Set Piece)						
	24		M24x3.0	-													
25	-		M25x1.5	43	33	35	15	10	2	M6x6 (With Set Piece)							
30	M30x3.5		M30x1.5														
35	-		M35x1.5	48	39	40	20	14	2	M6x6 (With Set Piece)							
40	-		M40x1.5														
40	-	M40x1.5	53	48	49	25	16	2	M6x6 (With Set Piece)								
50	-	M50x1.5															

Hex Type

Type	Coarse	Fine	Material	Hardness	Surface Treatment	Accessory
Set Screw Type	BNCC	BNSC	SS400	-	Black Oxide	Set Piece (Copper Alloy)
	-	BNSCC	S45C Thermal Refined	20~24HRC	Black Oxide	Set Screw (SCM435)
	BNCMS	BNSCS	SUS303	-	-	Set Screw (SUS304)
Screw Type	-	BNBS	SS400	-	Black Oxide	Hex Socket Screw (SCM435)
	-	BNBSS	S45C Thermal Refined	20~24HRC	Black Oxide	Hex Socket Screw (SCM435)
	BNBMS	BNBSS	SUS303	-	-	Hex Socket Screw (SUS304)

BNSCC, BNBM and BNBS have a round identification groove in front.
S45C Thermal Refined excels in durability.

Part Number Type	M	MxPitch		D	C	Set Screw			Screw Type										Unit Price									
		Coarse	Fine			(e)	F	B	b	M1	(e1)	F1	B1	b1	M2	X	Y	Z	d	R	BNCM	BNSCC	BNCMS	BNBM	BNBS	BNSC	BNBMS	BNBSS
(Coarse Set Screw) BNCM, BNSCM	*5	M5x0.8	M5x0.5	9	19.6	17	9	5	M3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	*6	M6x1.0	M6x0.75							10	27.7	24	13	9	M4	7	4	7 (8.5)	4.5	3.75								
(Coarse Screw) BNBM, BNBMS	8	M8x1.25	M8x1.0	13	21.9	19	10	6	M4	27.7	24	13	9	M4	7	4	7 (10)	4.5	3.75									
	10	M10x1.5	M10x1.0							16	25.4	22	10	6	M4	9	4	7 (10)	4.5	3.75								
(Fine Set Screw) BNSC, BNSCC, BNSCS	12	M12x1.75	M12x1.0	17	27.7	24	10	6	M4	34.6	30	16	12	M5	9.5	4.5	9 (11)	5.5	4.5									
	15	-	M15x1.0							21	31.2	27	11	6	M4	12.5	5	9.5 (11)	5.5	4.5								
(Fine Screw) BNBS, BNBSC, BNBSS	16	M16x2.0	-	26	37.0	32	11	6	M4	41.6	36	19	14	M6	15	6.5	12 (15)	7	5.5									
	20	M20x2.5	M20x1.0							26	37.0	32	11	6	M4	15	6.5	12 (15)	7	5.5								
	24	M24x3.0	-	33	47.3	41	13	8	M5	53.1	46	20	16	M6	17	7.5	15											
	25	-	M25x1.5							33	47.3	41	13	8	M5	19.5	8.5	18										
	30	M30x3.5	M30x1.5	39	0.5	57.7	50	16	10	M6	57.7	50	20															

* End Face M5 and M6 are available for Set Screw only. Z dimensions in () are for Stainless Steel Type.

Ordering Example
Part Number
BNR12
BNSC12