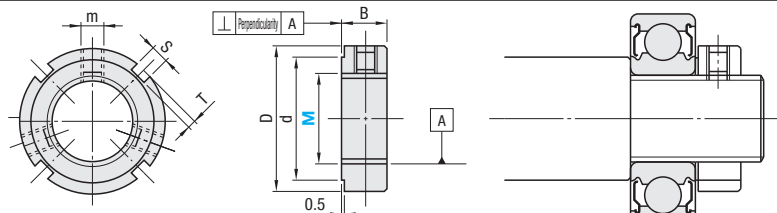


# Precision Lock Nuts / Hook Spanners for Bearing Nuts

# Bearing Lock Nuts

Square / Hexagon

## Precision Lock Nuts



Type	Perpendicularity
PLNY (Standard)	$\perp 0.005$ A
PLN (High-Grade)	$\perp 0.002$ A

Component	M Material	H Hardness	S Surface Treatment
Main Body	EN 1.7220 Equiv.	28~32HRC	-
Set Screw	EN 1.7220 Equiv.	35~40HRC	Black Oxide
Locking Metal (*)	Phosphor Bronze	-	-

\* Locking metal is the metal at the tip portion of set screw.

Screw Accuracy  
ISO Class 4H

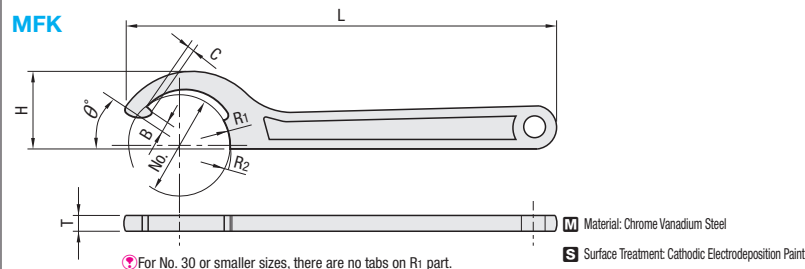
Part Number		MxPitch (Fine)	D	d	B	S	T	m	Perpendicularity of End Face (Max.)	Max. Tightening Torque (N·m) Set Screw	Unit Price	
Type	M										PLNY	PLN
(Standard) PLNY	8	8x0.75	16	11	8	3	2	2xM4	-PLNY 0.005	3.5		
	10	10x1.0	18	13								
	12	12x1.0	20	16								
	15	15x1.0	25	21								
	17	17x1.0	28	23	10	4	2xM5 3xM5	-PLNY 0.005	4.5			
	20	20x1.0	32	27								
	25	25x1.5	38	33	12	5	3xM6		-PLN 0.002	8.0		
	30	30x1.5	45	40								
	35	35x1.5	52	47								
	40	40x1.5	58	52								
(High-Grade) PLN	45	45x1.5	65	59	14	6	2.5	3xM8	18.0			
	50	50x1.5	70	64								
	55	55x2.0	75	68	16	7	3					
	60	60x2.0	80	73								



Ordering  
Example

Part Number  
PLNY8

## Hook Spanners for Bearing Nuts



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

Surface Treatment: Cathodic Electrodeposition Paint

Part Number		R1	R2	B	C	θ	T	H	L	Shaft Dia.	Round Nut / Bearing Nut	Unit Price	Volume Discount Rate
Type	No.											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						Ø20, Ø22	M12			
	25	12.5	14	2	2.3		5	20	136	Ø25, Ø28	M15, M17		
	30	15	16						Ø30, Ø32	M20			
	34	17	19	2.5	2.5	35°	6	28	160	Ø34, Ø38	M25		
	45	22.5	24				7	36	196	Ø45, Ø48	M30		
	52	26	27.5				6.5	41	208	Ø52, Ø55	M35		
	58	29	32.5				8.5	46	232	Ø58, Ø65	M40, M45		
	65	32.5	35	3	Ø65, Ø70			M45, M50					
	70	35	37.5		Ø70, Ø75			M50, M55					

For orders larger than indicated quantity, please request a quotation.



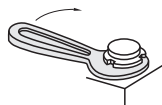
Ordering  
Example

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.

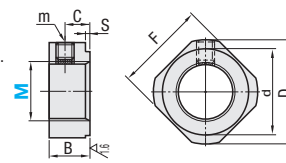


## Square



Type	Coarse	Fine	M Material	H Hardness	S Surface Treatment	A Accessory
BNG	BNR	BNRC	EN 1.0038 Equiv.	-	Black Oxide	Set Piece (Copper Alloy)
BNGC	BNRC	BNRS	EN 1.1191 Equiv. Thermal Refined	22~28HRC	-	Set Screw (EN 1.7220 Equiv.)
BNGS	BNRS		EN 1.4301 Equiv.	-	-	Set Screw (EN 1.4301 Equiv.)

- Tighten the set screw after inserting the set piece.
- For Set Piece (SEPNS) Specifications, see P.2-212
- EN 1.1191 Equiv. Thermal Refined excels in durability.

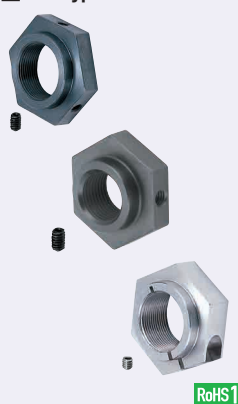


BNGC and BNRC have identification mark "C" on the side of nut.

6.3 / (1.6)

Part Number	MxPitch	D	d	F	B	C	S	m	Coarse Thread Unit Price	Fine Thread Unit Price
Type	M	Coarse	Fine						BNG BNGC BNGS	BNR BNRC BNRS
(Coarse) BNG BNGC BNGS	3	M3x0.5	M3x0.35	11.5	4	10	0.5	M3x3 (With Set Piece)		
	4	M4x0.7	M4x0.5		5					
	5	M5x0.8	M5x0.5	13.5	9	11				
	6	M6x1.0	M6x0.75	14.5	10	12				
	8	M8x1.25	M8x1.0	17	13	14	1	M4x4 (With Set Piece)		
	10	M10x1.5	M10x1.0	20	16	17				
	12	M12x1.75	M12x1.0	22	17	19				
	15	-	M15x1.0							
	16	M16x2.0	-	25	21	22	2	M5x5 (With Set Piece)		
	17	-	M17x1.0							
	20	M20x2.5	M20x1.0	35	26	30				
	24	M24x3.0	-	43	33	35				
(Fine) BNR BNRC BNRS	25	-	M25x1.5	43	33	35	10	M6x6 (With Set Piece)		
	30	M30x3.5	M30x1.5	48	39	40				
	35	-	M35x1.5	48	43	45				
	40	-	M40x1.5	53	48	49				
	40	-	M40x1.5	53	48	49	25	16		
	50	-	M50x1.5	66	61	63				

## Hex Type

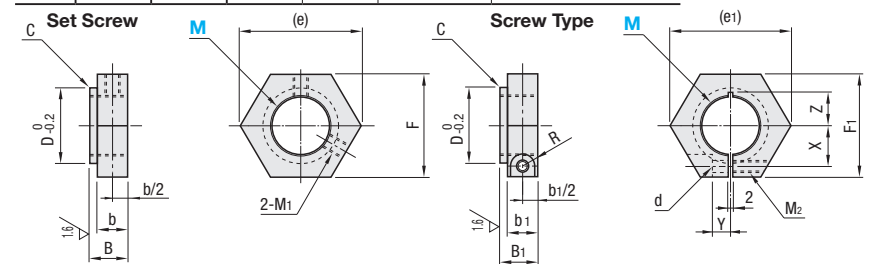


Type	Coarse	Fine	M Material	H Hardness	S Surface Treatment	A Accessory
Set Screw Type	BNCM	BNSC	EN 1.0038 Equiv.	-	Black Oxide	Set Piece (Copper Alloy)
	-	BNSCC	EN 1.1191 Equiv. Thermal Refined	20~24HRC	-	Set Screw (EN 1.7220 Equiv.)
	BNCMS	BNSCS	EN 1.4305 Equiv.	-	-	Set Screw (EN 1.4301 Equiv.)
Screw Type	BNBM	BNBS	EN 1.0038 Equiv.	-	Black Oxide	Hex Socket Screw (EN 1.7220 Equiv.)
	-	BNBSC	EN 1.1191 Equiv. Thermal Refined	20~24HRC	-	Hex Socket Screw (EN 1.7220 Equiv.)
	BNBMS	BNBSS	EN 1.4305 Equiv.	-	-	Hex Socket Screw (EN 1.4301 Equiv.)

BNBSCC, BNBMCM and BNBSMC have a round identification groove in front.

EN 1.1191 Equiv. Thermal Refined excels in durability.

6.3 / (1.6)



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

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



Ordering  
Example

Part Number  
BNR12  
BNRC12