

Nuts

Domed (Acorn) Nuts

Type	Material	Surface Treatment
FNT	EN 1.4301 Equiv.	-

Hex nut section and the dome section are welded together.
JIS B 1183 (Type 3)

RoHS 10

Part Number	H	h	B	A(min.)	T(min.)	a (Approx.)	r (Approx.)	Unit Price	Volume Discount Rate
Type M (Coarse)								1 - 5 pc(s)	6 - 9 pc(s)
3	5.0	2.4	5.5	4.6	0.3	6.1	0.5		
4	6.2	3.2	7	5.6		8.1			
5	7.5	4	8	6.6	0.6	9.2			
6	9.5	5	10	8.5		11.5	0.5		
8	12.5	6.5	13	11.5	0.8	15			
10	15.5	8	17	14.5	1.0	19.6			
12	18.5	10	19	16.5	1.2	21.9			
16	24	13	24	21.5		27.7			
20	29	16	30	26.5		34.6			
24	35.5	19	36	32.5	2.0	41.6			

Ordering Example Part Number FNT20

With Knurled Heads

Type	Material	Surface Treatment
FRNT	EN 1.1191 Equiv.	Black Oxide
FRNTS	EN 1.4301 Equiv.	-

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Part Number	D	T	E	B	FRNT	FRNTS
Type M (Coarse)					Unit Price	Unit Price
3	12	3	5	0.5	6	8
4	16	4	6	0.5	8	10
5	20	5	8	0.5	10	12
6	24	6	8	1	12	16
8	30	8	10	1	16	20
10	36	10	12	1	20	

Ordering Example Part Number FRNT8 - 30 - 10

Quick-Lock Nuts

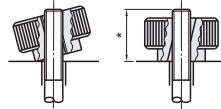
Type	Material	Surface Treatment
QCN	EN 1.0715 Equiv.	Black Oxide
QCNS	EN 1.4305 Equiv.	-
QHN	EN 1.1191 Equiv.	Black Oxide
QHNS	EN 1.4305 Equiv.	-

RoHS 10

Part Number	D	M (Coarse)	H	S	d	C	Reference Tightening Torque N(kgf)/m	Unit Price
Type								QCN QCNS
24	6	14	4	16	6.7	6.7	4.8(0.5)	
30	8	17	5	20	8.7	8.7	9.0(0.9)	
36	10	20	6	28	11.0	11.0	17.5(1.8)	
40	12	24	8	32	13.7	13.7	17.5(1.8)	

Part Number	B	M (Coarse)	H	C	(e)	Reference Tightening Torque N(kgf)/m	Unit Price
Type							QHN QHNS
17	6	14	6.7	19.6	4.9(0.5)		
19	8	17	8.7	21.9	9.8(1.0)		
24	10	20	11.0	27.7	15.6(1.6)		
27	12	24	13.7	31.2	19.6(2.0)		

- Features and Precautions for Use**
- Long threaded screws can be tightened quickly.
 - Use at the reference tightening torque or less to avoid over tightening.
 - Move the nut to the tightening position after inserting a screw into the straight hole. Then rotate the knob perpendicular to the screw and tighten it.
 - Tightening strength is not adequate if the thread length of a screw (*) is shorter than the nut's H dimension. Design the thread length of a screw (*) to be larger than the H dimension.



Cylindrical Nuts

Type	Material	Surface Treatment
RBNT	EN 1.4301 Equiv.	-

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Part Number	M	D	L	W	Unit Price
Type					
3	6	8		1	
4	8	10			
5	10	11			
6	12	12		1.5	
8	14	16			
10	18	20		2	
12	20	24		2.5	

Ordering Example Part Number RBNT10

Flanged Nuts

Type	Material	Surface Treatment
FRNUT	JIS-SWCH10R	Trivalent Chromate
FRSNUT	EN 1.4301 Equiv.	-

RoHS 10

Not serrated

Part Number	M	D	B	(e)	T	T1 (Min.)	FRNUT	FRSNUT
Type							Unit Price	Unit Price
3	0.5	8	5.5	6.3	3.7	1	1 - 49 pc(s)	50 - 500 pc(s)
4	0.7	10	7	8	4.5	1.1		
5	0.8	12	8	9.2	5.5	1.1		
6	1	13	10	11.5	6	1.5		
8	1.25	17	12	13.8	7.5	1.5		
10	1.5	19	14	16.2	9	1.8		

Ordering Example Part Number FRNUTS

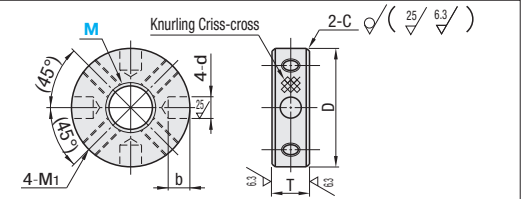
Knurled Thumb Nuts with Side Holes

Type	Material	Surface Treatment
CRNT	EN 1.1191 Equiv.	Black Oxide
CRNTS	EN 1.4301 Equiv.	-
SCRNT	EN 1.1191 Equiv.	Black Oxide
SCRNTS	EN 1.4301 Equiv.	-

RoHS 10

Not serrated

- Features**
1. The nuts can be tightened with hex key wrenches using the holes, made to fit the wrenches, on the side.
 2. The tapped holes can be used for retaining set screws.
 3. Use in spaces where standard hex wrenches cannot reach.



Part Number	MxPitch	MxPitch	D	T	d	b	Applicable Hex Key Wrench Size	M1	C	Unit Price
Type										CRNT CRNTS SCRNT SCRNTS
10	10x1.5	10x1.0	25	8	4.6	5	4	4	0.5	
12	12x1.75	12x1.0	30	10	5.8	6	5	5		
16	16x2	16x1.5	38	12	6.9	7	6			
20	20x2.5	-	45	16	8	8		6		
24	24x3	-	50	18	9.2	9	8			
30	30x3.5	-	60	20	11.5	10	10	8		

Ordering Example Part Number CRNT10

Cylindrical Nuts with Hex Socket

Type	Material	Hardness	Surface Treatment
RNSB	EN 1.1191 Equiv.	35-40HRC	Black Oxide
RNLB			Electroless Nickel Plating

RoHS 10

*Since D dimensions are made to correspond to the head diameter of hex socket head cap screws, counterbore tools can be used for recess holes. (For one size larger diameters, for example M4-M5.08.5)

Part Number	M (Coarse)	D	L	L1	B	b	b1	C	Unit Price
Type									RNSB, RNSM RNLB, RNLM
4	8.5	5	10	4	3	8	0.3		
5	10	7	13	5	4	10			
6	13	9	16	6	5	12			
8	16	12	22	8	6.5	16.5	0.5		
10	18	14	26	10	8	20			

Ordering Example Part Number RNSB6

T-Nuts

Type	Material	Surface Treatment
Standard Type	NTS	EN 1.0038 Trivalent Bright Chromate Plating
Configurable	NTSF	EN 1.0038 Equiv. Black Oxide

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Part Number	M (Coarse)	A	B	C	E	F	d1	Unit Price	Volume Discount Rate
Type								1 - 49 pc(s)	50 - 500 pc(s)
3	3.9	7	5	3	2.0	3.5			
4	4.8	8	6.5	4	2.5	4.5			
5	5.8	10	8	5	3	5.5			
6	7.7	13	9.5	6	3.5	7			
8	9.7	13	10.5	6	4.5	9			
10	11.7	16	12.5	7	5.5	11			
12	17.6	25	18.5	10	8.5	14			
16	21.6	32	24.5	14	10.5	18			
20	24.6	35	30.5	20	10.5	22			

Part Number	M (Coarse)	A	E	F	B	d1	Unit Price	Volume Discount Rate
Type							1 - 9 pc(s)	10 - 50 pc(s)
3					7	3.5		
4					8	4.5		
5					10	5.5		
6	3.9-17.6	3-10	2-8.5		13	7		
8					13	9		
10					16	11		
12					25	14		

A < B

Ordering Example Part Number NTS8 NTSF12 - A9.5 - E5.2 - F4.8