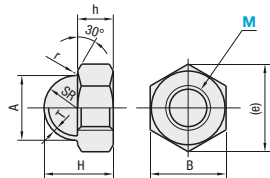


Nuts

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

Part Number	H	h	B	A(min.)	T(min.)	e (Approx.)	r (Approx.)	Unit Price	Volume Discount Rate
Type M (Coarse)								1 ~ 5 pcs.	6 ~ 9 pcs.
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	1.0		
20	29	16	30	26.5	1.6	34.6			
24	35.5	19	36	32.5	2.0	41.6			

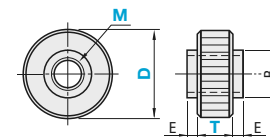


Part Number
FNT20

With Knurled Heads



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



RoHS

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



Part Number
FRNT8 - 30 - 10

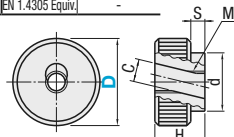
For orders larger than indicated quantity, please check with WOS.

Quick-Lock Nuts

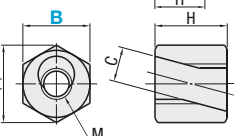


Type	Material	Surface Treatment
QCN	EN 1.0715 Equiv.	Black Oxide
QCNS	EN 1.4305 Equiv.	-
QHN	EN 1.1191 Equiv.	Black Oxide
QHNS	EN 1.4305 Equiv.	-

Round Type
QCN
QCNS



Hex Type
QHN
QHNS



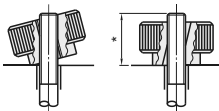
RoHS

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	4.8(0.5)		
30	8	17	5	20	8.7	9.0(0.9)		
36	10	20	6	28	11.0	17.5(1.8)		
40	12	24	8	32	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	15.8(1.6)		
27	12	24	13.7	31.2	19.6(2.0)		

Features and Precautions for Use

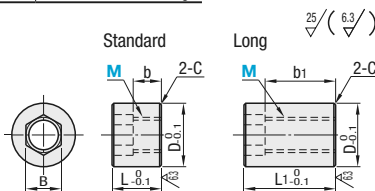
- Long threaded screws can be tightened quickly.
- Use at the reference tightening torque or less to avoid over tightening.
- Move the nut to the tightening position after inserting a screw into the straight hole. Then rotate the knob perpendicular to the screw and tighten it.
- Tightening strength is 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 with Hex Socket



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



*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)

RoHS

Part Number	D	L	L1	B	b	b1	C	Unit Price
Type M (Coarse)								RNSB, RNSM
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		

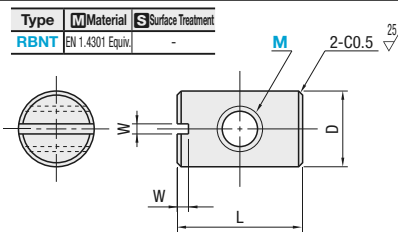


Part Number
RNSB6

Cylindrical Nuts



RoHS



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		



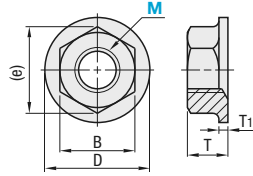
Part Number
RBNT10

Flanged Nuts



RoHS

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



Not serrated

Part Number	(Coarse)	D	B	(e)	T	T1 (Min.)	FRNUT	FRSNUT
Type M							Unit Price	Unit Price
3	0.5	8	5.5	6.3	3.7	1	1 ~ 49 pc(s).	1 ~ 49 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		



Part Number
FRNUTS

Knurled Thumb Nuts with Side Holes

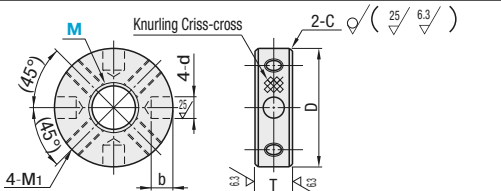


RoHS

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

Features

- The nuts can be tightened with hex key wrenches using the holes, made to fit the wrenches, on the side.
- The tapped holes can be used for retaining set screws.
- 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 M										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	9.2	8	8	6	1	
24	24x3	-	50	18	9	9				
30	30x3.5	-	60	20	11.5	10	10	8		



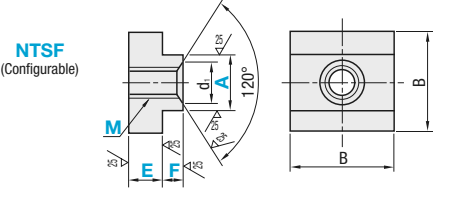
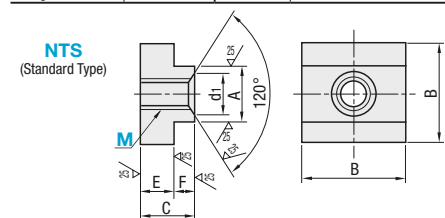
Part Number
CRNT10

T-Nuts



RoHS

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



Standard Type

Part Number	A	B	C	E	F	d1	Unit Price	Volume Discount Rate
Type M (Coarse)							1 ~ 49 pc(s).	50 ~ 500 pcs.
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
NTS8
NTSF12 - A9.5 - E5.2 - F4.8

Configurable

Part Number	0.1mm Increment	B	d1	Unit Price	Volume Discount Rate
Type M (Coarse)				1 ~ 9 pc(s).	10 ~ 50 pcs.
3		7	3.5		
4		8	4.5		
5		10	5.5		
6	3.9-17.6	13	7		
8		13	9		
10		16	11		
12		25	14		

A < B