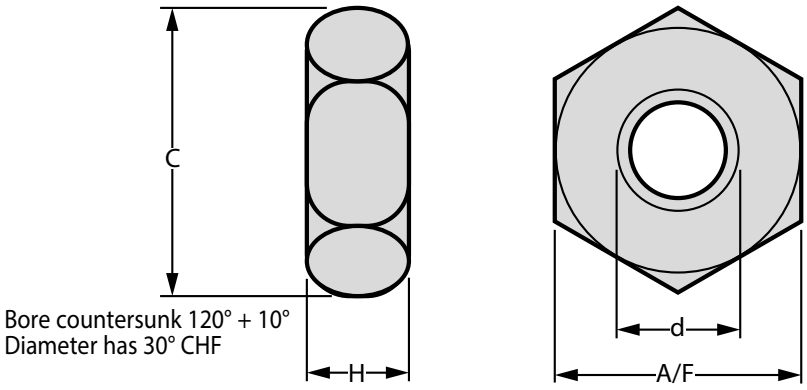
FASTENERS

N

Hexagon Full Nuts

Steel : DIN 934 : M3 - M16



Part Number	Thread d	Pitch	A/F	C	H
N3	M3	0.50	5.5	6.01	2.4
N4	M4	0.70	7.0	7.66	3.2
N5	M5	0.80	8.0	8.79	4.0
N6	M6	1.00	10.0	11.05	5.0
N8	M8	1.25	13.0	14.38	6.5
N10	M10	1.50	17.0	18.90	8.0
N12	M12	1.75	19.0	21.10	10.0
N16	M16	2.00	24.0	26.75	13.0

Material

High Tensile Steel Grade 8. BS3692:1967

Coarse Pitch.

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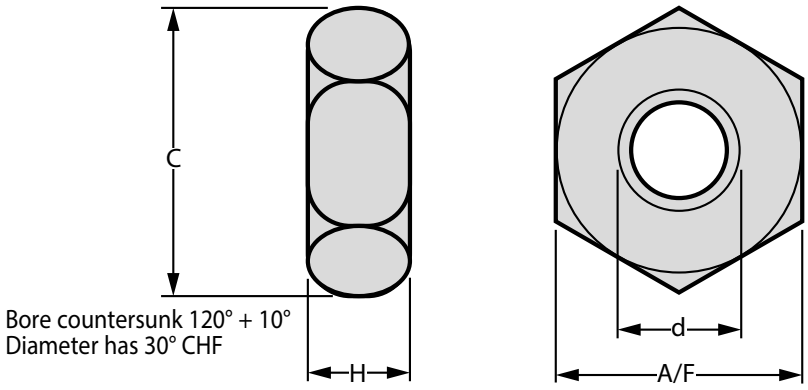
FASTENERS

SHN

Hexagon Full Nuts

Stainless Steel : DIN 934 : M1.6 - M52



Part Number	Thread M	Pitch	A/F	C	H
SHN-1.6	M1.6	0.35	3.2	3.48	1.0
SHN-2	M2	0.40	4.0	4.32	1.6
SHN-2.5	M2.5	0.45	5.0	5.45	2.0
SHN-3	M3	0.50	5.5	6.01	2.4
SHN-3.5	M3.5	0.60	7.0	7.66	3.2
SHN-4	M4	0.70	7.0	7.66	3.2
SHN-5	M5	0.80	8.0	8.79	4.0
SHN-6	M6	1.00	10.0	11.05	5.0
SHN-8F075	M8	0.75	13.0	14.38	6.5
SHN-8F100	M8	1.00	13.0	14.38	6.5
SHN-8	M8	1.25	13.0	14.38	6.5
SHN-10F100	M10	1.00	17.0	18.90	8.0
SHN-10F125	M10	1.25	17.0	18.90	8.0
SHN-10	M10	1.50	17.0	18.90	8.0
SHN-12F125	M12	1.25	19.0	21.10	10.0
SHN-12F150	M12	1.50	19.0	21.10	10.0
SHN-12	M12	1.75	19.0	21.10	10.0
SHN-14	M14	2.00	22.0	24.49	11.0
SHN-16F150	M16	1.50	24.0	26.75	13.0
SHN-16F175	M16	1.75	24.0	26.75	13.0
SHN-16	M16	2.00	24.0	26.75	13.0
SHN-18	M18	2.50	27.0	29.56	15.0
SHN-20F150	M20	1.50	30.0	32.95	16.0
SHN-20F200	M20	2.00	30.0	32.95	16.0
SHN-20	M20	2.50	30.0	32.95	16.0
SHN-22	M22	2.50	32.0	35.03	18.0
SHN-24	M24	3.00	36.0	39.55	19.0
SHN-27	M27	3.00	41.0	45.20	22.0
SHN-30	M30	3.50	46.0	50.85	24.0
SHN-33	M33	3.50	50.0	55.37	26.0
SHN-36	M36	4.00	55.0	60.79	29.0
SHN-39	M39	4.00	60.0	66.44	31.0
SHN-42	M42	4.50	65.0	71.30	34.0
SHN-45	M45	4.50	70.0	76.95	36.0
SHN-48	M48	5.00	75.0	82.60	38.0
SHN-52	M52	5.00	80.0	88.25	42.0

Material

SHN (Coarse Pitch): A2 Stainless Steel. Also available in A4 Stainless Steel. P.O.A.
SHN-F (Fine Pitch): A4 Stainless Steel.

Maximum Working Temperature: +430°C.

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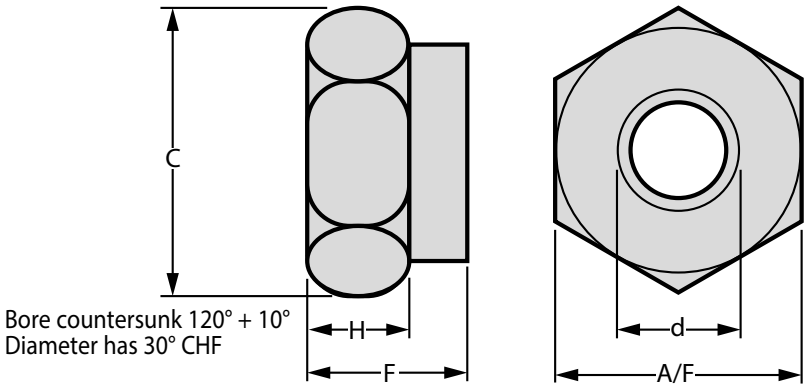
FASTENERS

NIN

Nyloc Self Locking Nuts

Stainless Steel : DIN 985 : M2.5 - M36



Part Number	Thread M	A/F	H	F
NIN-2.5	M2.5	5.0	2.5	3.5
NIN-3	M3	5.5	2.7	4.0
NIN-4	M4	7.0	3.2	5.0
NIN-5	M5	8.0	3.5	5.0
NIN-6	M6	10.0	4.5	6.0
NIN-8	M8	13.0	6.0	8.0
NIN-10	M10	17.0	7.0	10.0
NIN-12	M12	19.0	9.0	12.0
NIN-14	M14	22.0	10.0	14.0
NIN-16	M16	24.0	11.0	16.0
NIN-18	M18	27.0	14.0	18.5
NIN-20	M20	30.0	15.0	20.0
NIN-22	M22	32.0	16.0	22.0
NIN-24	M24	36.0	16.0	24.0
NIN-27	M27	41.0	19.0	27.0
NIN-30	M30	46.0	23.0	30.0
NIN-33	M33	48.0	22.0	33.0
NIN-36	M36	55.0	30.0	36.0

Material

A2 Stainless Steel to DIN 985.
M6 Thread also available in A4 Stainless Steel, P.O.A.

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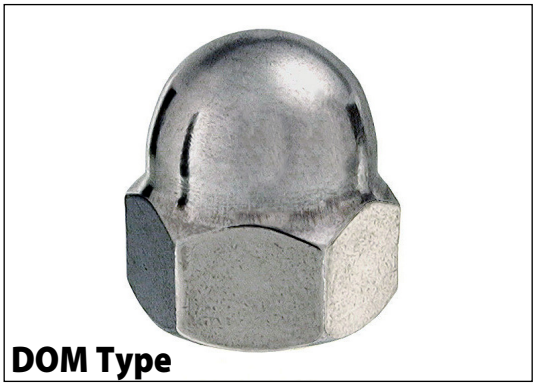
WING DOM

FASTENERS

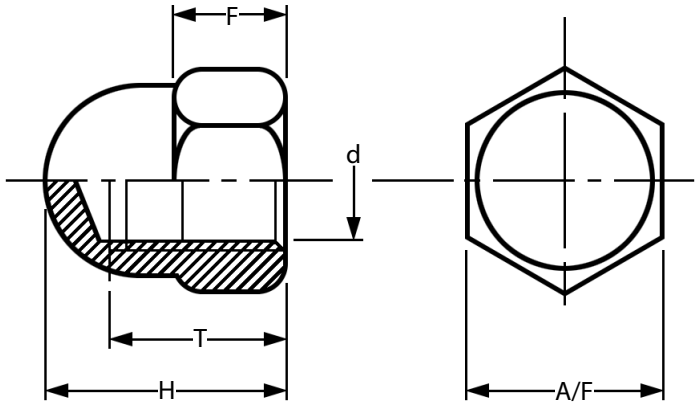
Wing Nuts & Hexagon Dome Cap Nuts

Stainless Steel : DIN 1587 : M3 - M30

WING Type



DOM Type



Part Number	Thread d	H	T	F	A/F	Stainless Steel Grade
WING NUT						
WING-M3	M3	-	-	-	-	A2
WING-M4	M4	-	-	-	-	A2
WING-M5	M5	-	-	-	-	A2
WING-M6	M6	-	-	-	-	A2
WING-M8	M8	-	-	-	-	A2
WING-M10	M10	-	-	-	-	A2
WING-M12	M12	-	-	-	-	A2
WING-M16	M16	-	-	-	-	A2
DOME NUT						
DOM3	M3	5.9	3.50	2.4	5.5	A2
DOM4	M4	8.0	5.26	3.2	7.0	A2
DOM5	M5	10.0	7.21	4.0	8.0	A2
DOM5-A4	M5	10.0	7.21	4.0	8.0	A4
DOM6	M6	12.0	7.71	5.0	10.0	A2
DOM8	M8	15.0	10.65	6.5	13.0	A2
DOM10	M10	18.0	12.65	8.0	17.0	A2
DOM10-A4	M10	18.0	12.65	8.0	17.0	A4
DOM12	M12	22.0	15.65	10.0	19.0	A2
DOM12-A4	M12	22.0	15.65	10.0	19.0	A4
DOM14	M14	25.0	17.65	11.0	22.0	A2
DOM16	M16	28.0	20.58	13.0	24.0	A2
DOM16-A4	M16	28.0	20.58	13.0	24.0	A4
DOM18	M18	32.0	24.58	15.0	27.0	A2
DOM20	M20	34.0	25.58	16.0	30.0	A2
DOM22	M22	39.0	28.58	18.0	34.0	A2
DOM24	M24	42.0	30.50	19.0	36.0	A2
DOM27	M27	47.0	35.00	20.0	41.0	A2
DOM30	M30	52.0	39.00	24.0	46.0	A2

Material

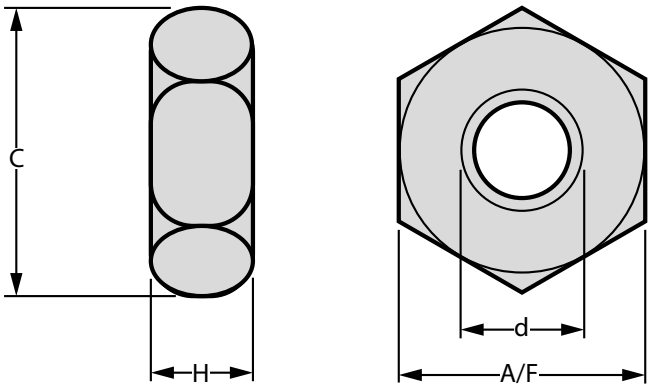
WING: A2 Stainless Steel.
DOM: A2 or A4 Stainless Steel to DIN 1587.

FASTENERS

HXLM

Hex Lock Thin Nuts

Stainless Steel : DIN 439 / DIN 439F : M2.5 - M30



Part Number	Thread d	Pitch	A/F	C	H	Stainless Steel Grade
HXLM2.5A2	M2.5	0.45	5.0	5.45	1.35	A2
HXLM3A2	M3	0.50	5.5	6.01	1.55	A2
HXLM4A2	M4	0.70	7.0	7.66	1.95	A2
HXLM4A4	M4	0.70	7.0	7.66	1.95	A4
HXLM5A2	M5	0.80	8.0	8.79	2.45	A2
HXLM5A4	M5	0.80	8.0	8.79	2.45	A4
HXLM6A2	M6	1.00	10.0	11.05	2.90	A2
HXLM6A4	M6	1.00	10.0	11.05	2.90	A4
HXLM8A2	M8	1.25	13.0	14.38	3.70	A2
HXLM8A4	M8	1.25	13.0	14.38	3.70	A4
HXLM10A2	M10	1.50	17.0	18.90	4.70	A2
HXLM10A4	M10	1.50	17.0	18.90	4.70	A4
HXLM12A2	M12	1.75	19.0	21.10	5.70	A2
HXLM12A4	M12	1.75	19.0	21.10	5.70	A4
HXLM14A2	M14	2.00	22.0	24.49	6.42	A2
HXLM16A2	M16	2.00	24.0	29.56	7.42	A2
HXLM16A4	M16	2.00	24.0	26.75	7.42	A4
HXLM20A2	M20	2.50	30.0	32.95	9.10	A2
HXLM20A4	M20	2.50	30.0	32.95	9.10	A4
HXLM22A2	M22	2.50	34.0	37.29	9.90	A2
HXLM24A2	M24	3.00	36.0	39.55	10.90	A2
HXLM24A4	M24	3.00	36.0	39.55	10.90	A4
HXLM27A2	M27	3.00	41.0	45.20	12.40	A2
HXLM30A2	M30	3.50	46.0	50.85	13.90	A2

Material

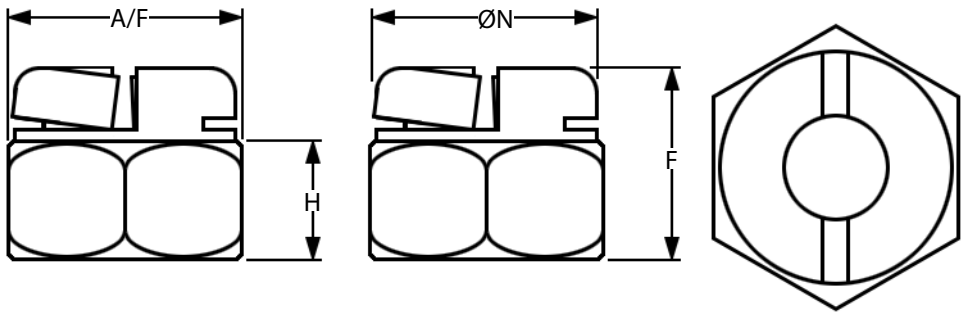
A2 or A4 Stainless Steel.
Coarse Pitch: DIN 439 **Fine Pitch:** DIN 439-F.

FASTENERS

AIR

Aerotight® Stiffnuts

Stainless Steel : M2.5 - M24



Part Number 303	Part Number 316	Thread	Max. A/F	Max. ØN	Max H	Min. F
AIR-M2.5	AIR-M2.5S	M2.5	5.0	4.75	2.97	1.49
AIR-M3	-	M3	5.5	5.25	3.52	1.89
AIR-M3.5	-	M3.5	7.0	6.65	4.79	2.69
AIR-M4	AIR-M4S	M4	7.0	6.65	4.79	2.69
AIR-M5	AIR-M5S	M5	8.0	7.65	6.02	3.49
AIR-M6	AIR-M6S	M6	10.0	9.58	7.95	4.63
AIR-M8	AIR-M8S	M8	13.0	12.62	10.05	5.87
AIR-M10	AIR-M10S	M10	17.0	16.53	12.03	7.62
AIR-M12	AIR-M12S	M12	19.0	18.47	14.48	9.62
AIR-M16	AIR-M16S	M16	24.0	23.47	18.75	12.62
AIR-M20	AIR-M20S	M20	30.0	29.47	22.35	15.62
AIR-M24	AIR-M24S	M24	36.0	35.18	26.85	18.62

Material

303 or 316 Stainless Steel.
Also available in other grades of Stainless Steel plus Mild Steel and Brass.
Can be supplied in all plated finishes if required.
ISO Metric threads to BS3643 Class 6H. Non-metric threads available, P.O.A.

Maximum Operating Temperature: 300°C.
Coarse Pitch.
Customised specials: Thin or other specified thicknesses of Aerotight® Stiffnuts are available subject to minimum order volumes, P.O.A.
Recommended Practices: Aerotight nuts should not be used on damaged or interrupted threads.
When assembled on the screw at least two full threads should protrude through the Aerotight® nut.

Aerotight ®is a Registered Trademark and can only be applied to goods manufactured by the Premier Screw and Repetition Company Limited. Any company infringing the registered trade mark may be liable to legal proceedings.

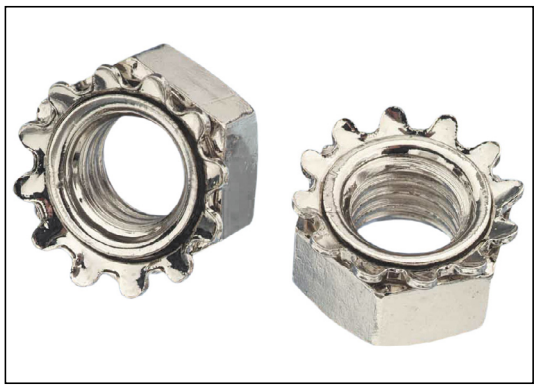
Features

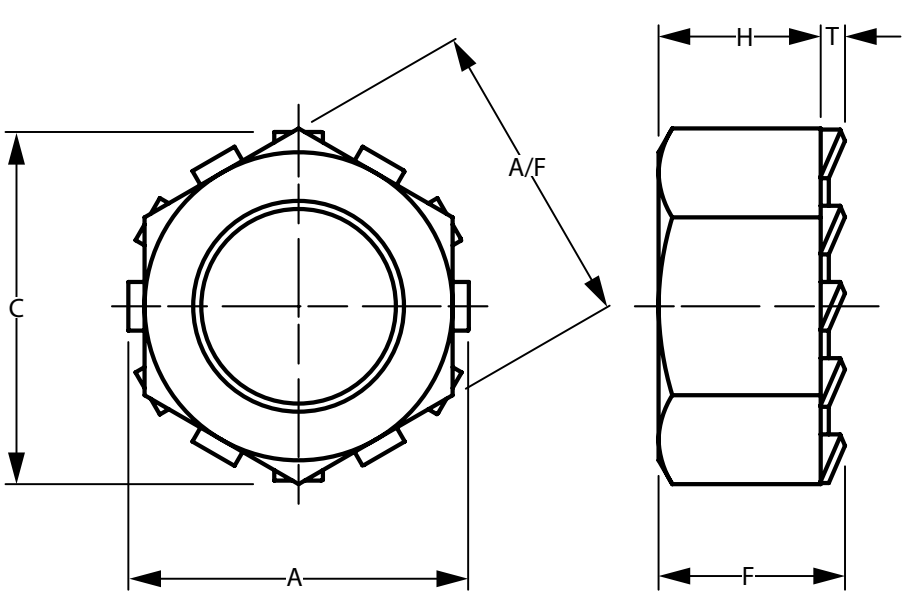
- All metal Stiff Nut - No vulnerable inserts to be affected by heat or oil.
- Can be re-used many times as the self locking function will still remain effective having been used a number of times.
- Will stay in position whether tightened down or not provided the locking element is engaged. Does not have to achieve recommended torque to be effective.
- No additional parts are required for Aerotight® to function, and therefore no special tools are needed for the application.

The material is ideal for manufacturing fasteners where it is essential that the application should last a considerable length of time therefore minimising maintenance, especially on exterior work. Can be used for outdoor applications in coastal and industrial areas where atmospheric corrosion is severe. Suitable for use in the chemical, photographic, food and horticultural industries. For paper processing, film processing and textile machinery.

Barb Nuts

Steel : Hexagon Nuts with External Shakeproof Washers : M3 - M12





Part Number	Thread	Across Flats A/F	Across Corners C	Nut Thickness H	Washer Dia. A	Washer Thickness T	Overall Height F	Mass g
B-1030	M3	5.5	6.4	2.4	6.3	0.45	3.2	0.35
B-1040	M4	7.0	8.1	3.2	8.0	0.45	4.0	0.75
B-1050	M5	8.0	9.2	4.0	9.2	0.60	5.1	1.16
B-1060	M6	10.0	11.5	5.0	11.0	0.60	6.1	2.37
B-1080	M8	13.0	15.0	6.5	14.9	0.80	7.9	4.90
B-1010	M10	17.0	19.6	8.0	19.0	0.90	9.6	11.55
B-1012	M12	19.0	21.7	10.0	21.0	1.00	12.0	16.40

Material

Nuts: Low Carbon Steel SAE 1010, Rockwell Hardness C-30 max.
304 Stainless Steel nuts available, P.O.A.
Washers: Steel SAE1050-1065, Rockwell Hardness C-40-56 max.
Finish: RoHS compliant Cr3 clear chromate.
Coarse Pitch.

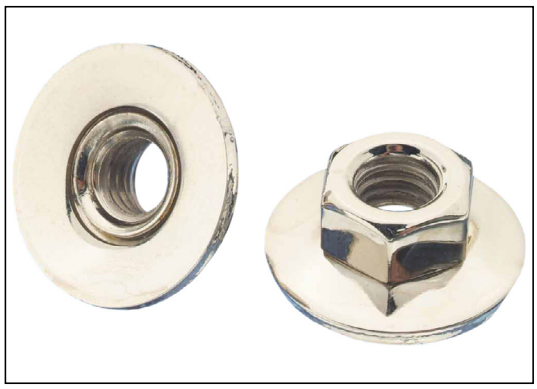
Features

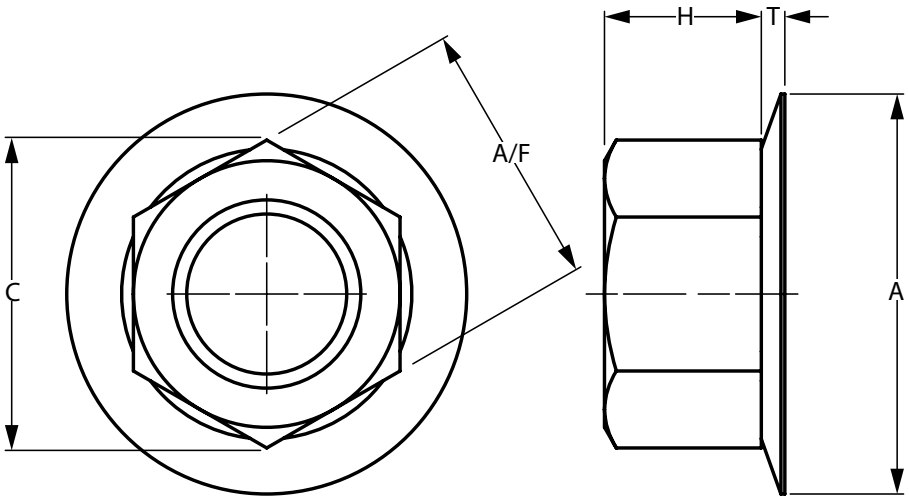
Barb nuts are cold formed hexagon nuts combined with external shakeproof washers. Because the washer and the nut are one part, the washer is free to rotate on the nut. This gives several advantages over separate applications of washer and nuts.

- One operation instead of two ,
- Easy installation in difficult and confined spaces ensuring accurate assembly,
- No lost washers.

Carp Nuts

Steel : Hexagon Nuts with Conical Washers : M3 - M12





Part Number	Thread	Across Flats A/F	Across Corners C	Nut Thickness H	Washer Dia. A	Washer Thickness T	Mass g
C-1031W	M3	5.5	6.01	2.4	8.0	0.40	0.70
C-1041W	M4	7.0	7.66	3.2	10.0	0.50	0.94
C-1051W	M5	8.0	9.21	4.0	12.0	0.80	1.61
C-1061W	M6	10.0	11.50	5.0	14.0	1.00	3.13
C-1082W	M8	13.0	15.00	6.5	18.0	1.40	7.02
C-1102W	M10	17.0	19.60	8.0	22.0	1.60	14.16

Material

Nuts: Low Carbon Steel SAE 1010, Rockwell Hardness C-30 max.
304 Stainless Steel nuts available, P.O.A.
Washers: Steel SAE1050-1065, Rockwell Hardness C-40-56 max.
Finish: RoHS compliant Cr3 clear or yellow chromate.
Coarse Pitch.
Supplied in packs of 100.

Features

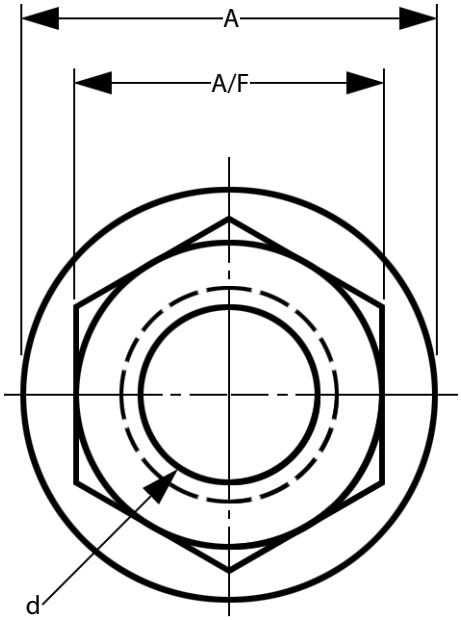
The washer and nut are one part with the washer free to rotate on the nut.
This gives several advantages over separate applications of washer and nuts.
- One installation instead of two,
- Easy installation in difficult and confined spaces ensuring accurate assembly,
- No lost washers.

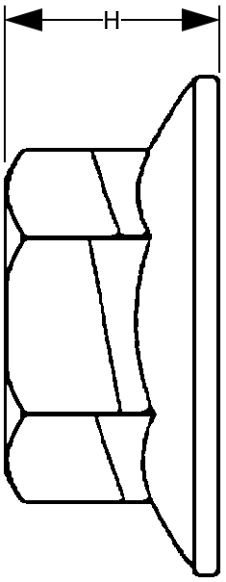
FASTENERS

DIS-NU

Disc-Lock® Locking Nuts

Steel : M8 - M16





Part Number	Thread d	Across Flats A/F	Height H	Flange Diameter A
DIS-NU-M10	M10	15	11.0	20
DIS-NU-M12	M12	19	17.5	25
DIS-NU-M14	M14	24	21.0	32
DIS-NU-M16	M16	24	21.0	32
DIS-NU-M16F*	M16	24	21.0	32

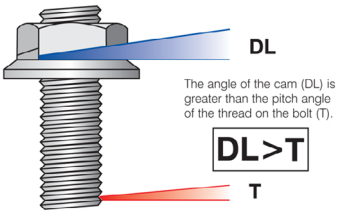
Material

Medium Carbon Steel with Magni 565† coating.
Coarse Pitch (* Fine Pitch).

Imperial and custom sizes in coarse or fine pitch available, P.O.A.

To install the Disc-Lock Locking Nut follow the same procedure as for conventional nuts and torque to normal specifications. To remove the Disc-Lock Locking Nut place the wrench or socket over both hexes and loosen.

The Disc-Lock Locking Nut is a double hex, fee spinning, vibration-proof lock nut. It consists of two pieces, each with interlocking cams, which are joined together to form one assembly. The top part of the Disc-Lock Locking Nut is a threaded hexagon nut with cams on the underside, while the bottom part, the hex flange washer, has cams on the topside. When the assembly is subjected to vibration and shock, the interlocking cams of the Disc-Lock Locking Nut rise against each other. As the angle of the cams is greater than the pitch angle of the thread on the stud a wedging effect takes place, thereby locking the assembly.



Features

- Free Spinning (no thread interference).
- One piece assembly.
- No washer required.
- Installed with standard equipment - no special tools required.
- Easy to remove.
- Reusable.
- †Magni 565 coated to comply with RoHS, WEEE and ELV European Directives. Older stocks of M16 nuts may be in Zinc as Magni 565 is phased in.
- Can be used with Grade 5 (Class 8.8), Grade 8 (Class 10.9) and even stronger bolts.
- US Military - MIL-STD 1312, Vibration Test 7 results available on request.
- Junker test results available on request.

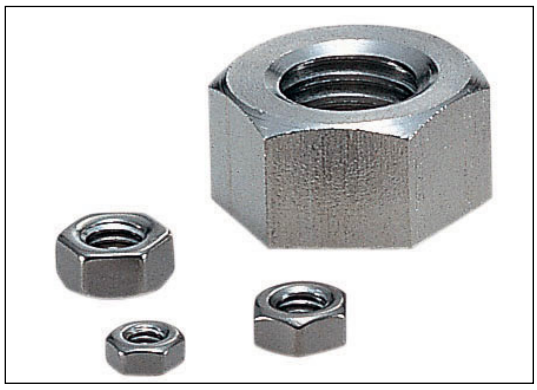
Applications include: Automotive industries (cars, trucks, buses and coaches), Compressors, Construction Industry, Cranes, Heavy Equipment Manufacturers, Farm Equipment, Go-Kart Racing, Mining, Public Utilities, Quarrying, Rail Industry and Rapid Transit Industry.

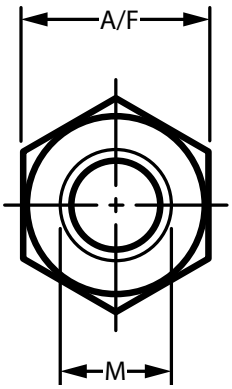
FASTENERS

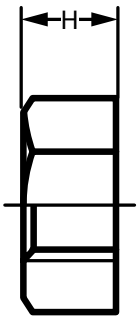
SHNT

Hexagon Nuts

Titanium : M3 - M10







Part Number Hex Nuts	Thread M	A/F	H	Mass g
SHNT-M3	M3	5.5	2.4	0.20
SHNT-M4	M4	7.0	3.2	0.46
SHNT-M5	M5	8.0	4.0	0.69
SHNT-M6	M6	10.0	5.0	1.40
SHNT-M8	M8	13.0	6.5	3.10
SHNT-M10	M10	17.0	8.0	6.50

Material

TW270 (Grade 1 Titanium).
Excellent chemical and seawater resistance.

Specific Gravity: 4.51.
Melting Point: 1668°C.
Longitudinal Elastic Modulus: 106 GPa.
Thermal Conductivity: 17.16 W/(m•K).
Linear Expansion Coefficient: 8.4 x 10^{-6} °K^{-1}.
Electrical Resistance: 0.55 μΩ•m.
Amplitude Permeability: 1.0001μ (Nonmagnetic).
Tensile Strength: 270-410 N/mm^2.
0.2% Proof Stress: 165 (or higher) N/mm^2.
Elongation: 27% (or higher).

*The Tensile Breaking Force values listed are for reference only and are not guaranteed under performance conditions.

Features

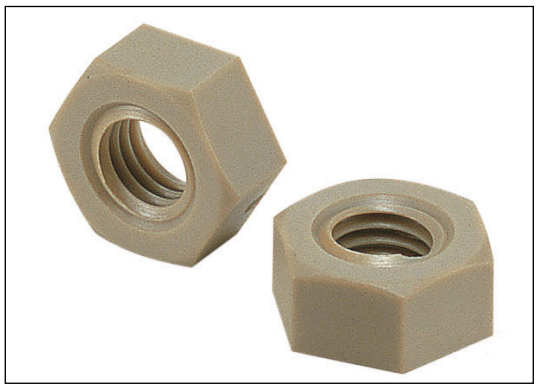
- The specific gravity of titanium is approximately 60% that of stainless steel. For use in lightweight applications, e.g. automotive, aerospace, medical and robotics.
- Completely Nonmagnetic (0 Magnetic Flux Density). Nonmagnetic characteristics may be used with FPD (Flat Panel Display) and semiconductor production equipment and devices, and electronic equipment.
- Excellent chemical and seawater resistance for electrochemical plating and aquatic applications.
- Chemical polishing and brightening processing improve the screw surface. Furthermore, the screws are cleanroom washed, cleanroom packed, and comply with clean specifications that require no oil or foreign matter deposits.
- For information on chemical resistance test details please contact Sales.

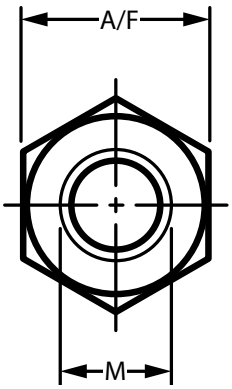
FASTENERS

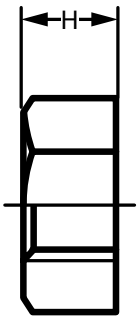
SPE-N

Hexagon Nuts

PEEK† : M2 - M10







Part Number	Thread M	A/F	H	Mass g	Quantity per Pack
SPE-M2-N	M2	4.0	1.6	0.020	20
SPE-M2.6-N	M2.6	5.0	2.0	0.038	20
SPE-M3-N	M3	5.5	2.4	0.057	20
SPE-M4-N	M4	7.0	3.2	0.130	20
SPE-M5-N	M5	8.0	4.0	0.200	20
SPE-M6-N	M6	10.0	5.0	0.400	10
SPE-M8-N	M8	13.0	6.5	0.910	5
SPE-M10-N	M10	17.0	8.0	1.900	5

Material

PEEK (Polyetheretherketone), light brown. †PEEK is a registered trademark of Vitre™.

Heat Resistance Temperature: 180°C. This is the value for the plastic material. The maximum operating temperature of the product changes with performance conditions such as tightening torque.

*Numerical values listed above are for reference only; they are not guaranteed under performance conditions. The recommended torque is 50% of the numerical values.

Precautions for Use

Because a cumulative pitch difference is created when PEEK screws are manufactured, use these screws with nuts. If a nut is not used, use a 20 mm or less fit with female thread.

Features

- PEEK is a thermoplastic super-engineering plastic with excellent physical and chemical properties.
- These screws have excellent chemical resistance. They are mostly unaffected by chemicals excluding concentrated sulfuric, nitric and hydrofluoric acid.
- These screws have excellent heat resistance, water resistance, and high heat resistance strength.
- These screws have excellent abrasion, shock, and fatigue resistance.
- They have high incombustibility that meets V-0 of UL 94.

Applications

FPD production equipment, semiconductor devices, PCB etching devices, metallic surface treatment equipment and facilities, chemical plants, transformers, electrical and electronic equipment, hot water pumps, and chemical pumps.