Stainless Steel Hexagon Flange Nuts

Standard： DIN EN 1661/DIN6923(Lock Nuts), ISO4161, GB/T6177-2000, JIS B 1190

Material： SUS301,304,18/8,0Cr18Ni9,X5CrNi1810,X10Cr13,410S21, if you need to use other stainless steel, please let us know.

Heat Treatment： None for normal, If you have special hardness requirement, please let us know.

Surface Hardness：220HV is Normal, 750HV max after Quench with SUS410

Finish：None.

Thread Direction：Normal is right hand/dextrorotation, if you want left hand, please let us know.

Tensile strength：Base on your requirement, please provide your grade to us

Stainless Steel Hexagon Flange Nuts --- A hex flange nut is a fastener that incorporates both a hexagonal nut with a flanged or washer-like base, which is a wide area on the bottom of the nut that extends outward past the typical diameter of the nut. Used when a flat washer is not practical, a hex flange nut allows the pressure of the nut to be displaced over a wider area than a plain nut would allow. Most hex flange nut designs are used in locking-type applications, with the flange nut using either a serrated back on the flange or a locking thread within the nut itself to lock the fastener into position when tight.

"Stainless Steel" - With the addition of 12% chromium to iron, stainless steel is formed. The chromium protects the iron against most corrosion or red colored rust; thus the term "stainless steel". The ability of stainless to form a thin layer of protection on its outside surface, called a "passive film", is its most important characteristic in preventing corrosion.

"18-8" - 300 series stainless steel having approximately (not exactly) 18% chromium and 8% nickel. The term "18-8" is used interchangeably to characterize fasteners made of 302,302HQ,303,304,384, XM7, and other variables of these grades with close chemical compositions. There is little overall difference in corrosion resistance among the 18-8 types, but slight differences in chemical composition do make certain grades more resistant than others against particular chemicals or atmospheres.

Austentic - Refers to 300 series stainless, the most popular of the stainless alloys accounting for 85%-90% of stainless fasteners sold Named for sir Robert Williams Austen, an English metallurgist, austentic stainless is a crystal structure formed by heating steel, chromium, and nickel to a high temperature where it forms the characteristics of 300 series stainless steel.

The typical **Stainless Steel Hexagon Flange Nuts** pictures as below

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And below is the common drawing for this kind:

德制六角法蘭面螺母
HEXAGON NUTS WITH FLANGE

DIN EN 1661|6923

mm

Thread size	M5	M6	M8	M10	M12	M14	M16	M20
Pitch	0.8	1	1.25	1.5	1.75	2	2	2.5
m	5	6	8	10	12	14	16	20
e	8.79	11.05	14.38	16.64	20.03	23.36	26.75	32.95
s	8	10	13	15	18	21	24	30
dc	11.8	14.2	17.9	21.8	26	29.9	34.5	42.8

美制六角法蘭面螺母
HEX FLANGE NUTS

ANSI/ASME B18.2.2 1986
IFI D-21

inches

Thread size	10	12	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4
Thread per inch	24	24	20	18	16	14	13	12	11	10
m	0.219	0.236	0.236	0.283	0.347	0.395	0.458	0.506	0.569	0.675
e	0.416	0.488	0.488	0.557	0.628	0.769	0.840	0.982	1.051	1.240
s	0.365	0.428	0.428	0.489	0.611	0.675	0.736	0.861	0.922	1.088
dc	0.500	0.594	0.594	0.680	0.750	0.937	1.031	1.168	1.261	1.500

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