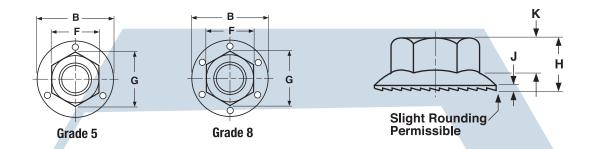
Serrated Hex Flange

Nuts



		SERRA	TED HE	K FLANG	E LOCK	Nuts-	-GRADE	s 5 & 8			IFI-145 2002*
Nominal Size or Basic Major Diameter of Thread		F		G		В		н		К	J
		Width Across Flats		Width Across Corners		Flange Diameter		Nut Thickness		Wrenching Height	Flange Thickness
		Max	Min	Max	Min	Max	Min	Max	Min	Min	Min
10	0.1900	0.375	0.365	0.433	0.416	0.500	0.480	0.219	0.203	0.13	0.03
1/4	0.2500	0.438	0.428	0.505	0.488	0.594	0.574	0.236	0.222	0.14	0.04
5/16	0.3125	0.500	0.489	0.577	0.557	0.680	0.660	0.283	0.268	0.17	0.04
3/8	0.3750	0.562	0.551	0.650	0.628	0.750	0.728	0.347	0.330	0.23	0.04
7/16	0.4375	0.688	0.675	0.794	0.768	0.937	0.910	0.395	0.375	0.26	0.04
1/2	0.5000	0.750	0.736	0.866	0.840	1.031	1.000	0.458	0.437	0.31	0.05
5/8	0.6250	0.938	0.922	1.083	1.051	1.281	1.248	0.569	0.545	0.40	0.05
3/4	0.7500	1.125	1.088	1.299	1.240	1.500	1.460	0.675	0.627	0.46	0.06

Description	Hex nut with an enlarged circular base flaring out from the bottom of the nut. The bearing surface of the flange has serrations which displace on the mating surface when the nut is wrenched into place, forming a connection which resists loosening.							
Applications/ Advantages	Requires a greater amount of torque to loosen than to tighten the nut. Will span oversized or poorly aligned holes. Flange provides a more uniform bearing-stress to clamp-force ratio than other low carbon lock nuts. Does not gall screw threads. Grade 5 nuts are designed to be used with Grade 5 screws and bolts; Grade 8 nuts are designed to be used with Grade 8 screws and bolts.							
	Grade 5			Grade 8				
Material	Nuts shall be made from a carbon steel which conformation chemical composition requirement Carbon: 0.55% max.; Manganese: 0.30 Phosphorus: 0.05% max.; Sulfur: 0.15	ts 0% min.;	Nuts shall be made from a carbon steel which conforms to the follo chemical composition requirements *Carbon*: 0.55% max.; *Manganese*: 0.30% min.; *Phosphorus*: 0.04% max.; *Sulfur*: 0.05% max.					
Proof Load	Proof Load Coarse thread: 120,000 psi.; Fine thread: 109,000 psi.		<i>Coarse thread</i> : 150,000 psi.; <i>Fine thread</i> : 150,000 psi.					
Hardness	dness Rockwell 32 HRC max			1/4 thru 5/8" diameters: 24 - 32 HRC Over 5/8 thru 1" diameters: 26 - 34 HRC				
Plating	Plating Grade 5 Flange Nuts are usually supplied in zinc finish			Grade 8 Flange Nuts are usually supplied in zinc yellow finish				