Earnest

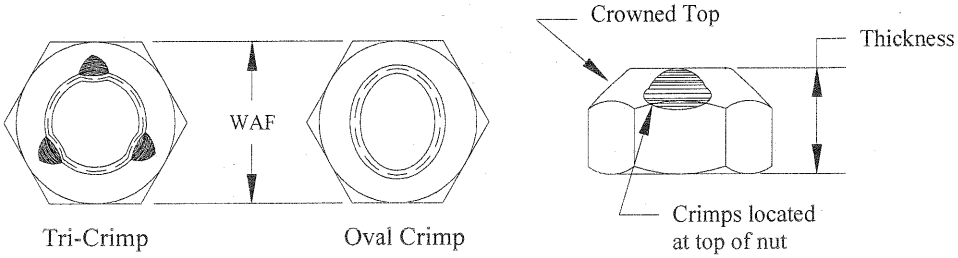
Earnest Technical Bulletin

Metric All Metal Lock Nuts

Stover® Style

11/11/10

Earnest Machine Products line of All Metal Hex Lock Nuts are made to the dimensional requirements of DIN 980. This all metal design features a crowned top that is crimped to create the locking feature. This crowned top design is commonly called a "stover" style lock nut. The style of the locking crimp may be oval shaped or triangular shaped (tri-crimp) depending on the size. Both styles of crimps provide the same locking ability and resistance to loosening in high vibration applications.



Size	Width Across Flats (nom)	Thickness	
		Max	Min
M6	10	6.0	5.7
M8	13	8.0	7.5
M10	17	10.0	9.0
M12	19	12.0	11.0
M16	24	16.0	14.0
M20	30	20.0	18.0
M24	36	24.0	22.0

Earnest's standard line of all metal lock nuts are made to the material properties and strength requirements are per ISO 898 for Property Class 10.

Diameters	Proof Load Strength	Hardness
M6 to M10	1040 MPa (150,800 psi)	HV 272/353 (Rc 26/36)
M12 to M16	1050 MPa (152,250 psi)	HV 272/353 (Rc 26/36)
M20 to M30	1060 MPa (153,700 psi)	HV 272/353 (Rc 26/36)

The performance requirements are per ISO 2320 for prevailing torque nuts of property class 10. Other property classes are available upon request.

Earnest standard line of lock nuts are coated with a zinc phosphate and oil coating that provides excellent resistance to galling and uniform torque tension performance. Other coatings are available upon request.