



Conical Keps Lock Nuts feature a free-spinning nut and an integrated conical spring lock washer designed to prevent loosening caused by vibration. When tightened onto a bolt, screw, or stud, the spring action of the conical washer creates resistance against rotation. The added spring tension helps maintain a secure assembly and is suitable for light-duty automotive and machinery assemblies where vibration is a concern. This fastener is similar to the External Tooth Keps Lock Nut with the added advantage that the spring lock washer will not scratch or damage its installation surface.

PRODUCT ATTRIBUTES

Available in Zinc Yellow and RoHS compliant Zinc Clear Trivalent

Provides vibration resistance for light duty applications

2-Piece assembly with a preassembled free-spinning conical spring lock washer

Stocked in both narrow and regular washer diameters

MARKETS FOR CONICAL KEPS LOCK NUTS

Robotics and Automotive Assemblies

Construction Equipment

Agriculture Equipment

THIS PRODUCT IS OFTEN CALLED

Hex Machine Screw Nut with Encapsulated Conical Lock Washer

Conical Nuts

Conical Keps Nuts

Conical K-Nuts

**ADDITIONAL LOCK NUTS WE SUPPLY**

All Metal Lock Nuts

2-Way Lock Nuts

Nylon Insert Lock Nuts

Hex Flange Lock Nuts

Hex Serrated Flange Lock Nuts

Twin Whiz Lock Nuts

Keps Lock Nuts

AVAILABLE VALUE ADDED SERVICES

Bulk and full case quantities

Secondary and rework services available

Custom packaging services

Custom plating and coating

Inquire today at **+1 (800) 327-6378** or visit **EarnestMachine.com**

CARBON STEEL CONICAL KEPS LOCK NUTS

Conical Keps Lock Nuts are manufactured in accordance with the latest revision of the following industry standards:

- ASME B18.2.2** Nut Dimensional Requirements
- ASME B18.21.1** Washer Dimensional Requirements
- SAE J995** Material and Strength Level
- ASME B1.1** Thread Requirements
- ASME B18.18** Inspection and Quality Assurance

THREADS

Threads made to requirements of ASME B1.1
Unified Threads (UNC and UNF) Class 2B
Thread acceptance per ASME B1.3, System 21

PLATING

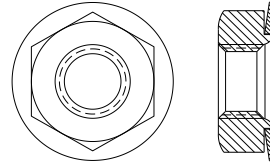
Zinc Yellow

Zinc Clear (RoHS compliant Cr3+)

*The specifications shown on this sheet are not intended to be used in the production of parts. Earnest Machine is not responsible or liable in any manner for any production errors and we certify the information present on this specification sheet is correct to the best of our knowledge. ©2024 Earnest Machine Products

MATERIAL AND PHYSICAL PROPERTIES

Carbon Steel Conical Keps Lock Nuts



Chemical Composition Limits

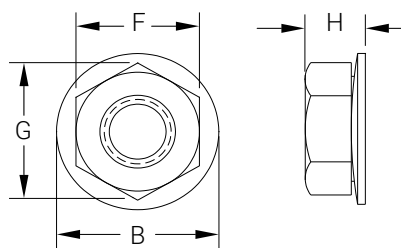
CARBON (C)	PHOSPHORUS (P)	SULFUR (S)
MAX	MAX	MAX
0.55	0.12	0.15

Hardness

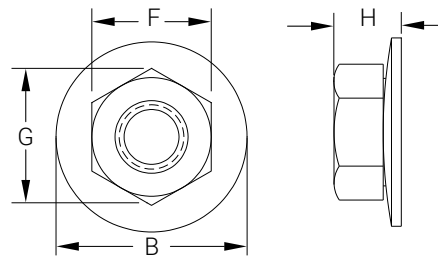
NUT	WASHER
HRC 32 max	HRC 38/50

Proof Load Strength

PROOF LOAD STRENGTH	
COARSE THREAD	FINE THREAD
54,000 psi min	48,000 psi min



Narrow Series



Regular Series

DIMENSIONS FOR CARBON STEEL CONICAL KEPS LOCK NUTS

SIZE	WASHER SERIES (OD)	WIDTH ACROSS FLATS (F)			WIDTH ACROSS CORNERS (G)		HEIGHT (H)		OUTSIDE DIAMETER (B)		
		NOM	MAX	MIN	MAX	MIN	MAX	MIN	NOM	MAX	MIN
#10 – 24	Narrow (7/16)	3/8	.375	.365	.433	.413	.180	.160	.438	.448	.428
#10 – 24	Regular (9/16)	3/8	.375	.365	.433	.413	.207	.160	.562	.572	.552
#10 – 32	Narrow (7/16)	3/8	.375	.365	.433	.413	.180	.160	.438	.448	.428
1/4 – 20	Narrow (5/8)	7/16	.438	.428	.505	.488	.260	.230	.625	.635	.615
1/4 – 20	Regular (3/4)	7/16	.438	.428	.505	.488	.260	.230	.750	.760	.740
1/4 – 28	Narrow (5/8)	7/16	.438	.428	.505	.488	.260	.230	.625	.635	.615
5/16 – 18	Narrow (3/4)	1/2	.500	.489	.577	.557	.340	.290	.750	.760	.740
5/16 – 18	Narrow (7/8)	1/2	.500	.489	.577	.557	.340	.290	.875	.885	.865
5/16 – 18	Regular (1)	1/2	.500	.489	.577	.557	.340	.290	1.000	1.010	.990
3/8 – 16	Narrow (1)	9/16	.563	.551	.650	.628	.345	.315	1.000	1.010	.990
3/8 – 16	Regular (1-1/8)	9/16	.563	.551	.650	.628	.345	.315	1.125	1.135	1.115
1/2 – 13	Narrow (1-1/4)	3/4	.750	.736	.866	.840	.390	.355	1.250	1.260	1.240
1/2 – 13	Regular (1-1/2)	3/4	.750	.736	.866	.840	.390	.355	1.500	1.510	1.490