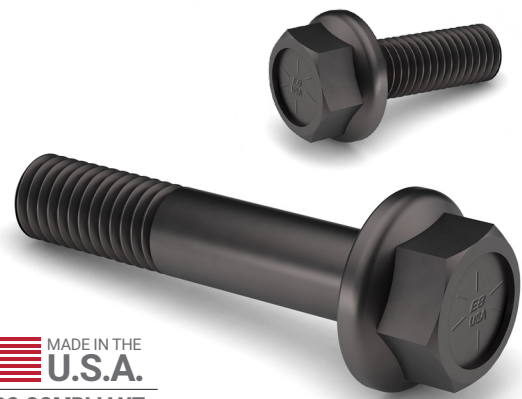




Earnest Machine has expanded our line of Hex Flange Product to include USA Made Hex Flange Screws, which are DFARS compliant and are available in Grade 8. Earnest Machine stocks USA Made Hex Flange Screws in Phos & Oil with diameters ranging from 5/16" to 5/8".



PRODUCT ATTRIBUTES

DFARS Compliant to meet US government regulations

Built-in washer distributes clamping load over wider area

Diameters range from 5/16" to 5/8" and lengths range from 3/4" to 5"

MARKETS FOR E8 HEX FLANGE SCREWS

Heavy Truck

Construction Equipment

Agriculture Equipment

Automotive

THIS PRODUCT IS OFTEN CALLED

Frame Bolt

Hex Flange Bolt

Flange Bolt

Hex Washer Head Bolt

AVAILABLE VALUE ADDED SERVICES

Bulk, full, and broken case quantities

Secondary and rework services

Custom packaging services

Custom plating and coating

ADDITIONAL USA MADE PRODUCT WE SUPPLY

USA Hex Nuts

E10.9 USA Metric Heavy Hex Flange Bolts

KMC Clips and Clamps

ADDITIONAL HEX FLANGE PRODUCT WE SUPPLY

Hex Serrated Flange Screws

Stainless Steel Hex Serrated Flange Screws

Metric Hex Serrated Flange Screws

Hex Flange Nuts

DIN & JIS Hex Flange Nuts

Metric Stainless Steel Hex Flange Nuts

Hex Serrated Flange Lock Nuts

Stainless Steel Hex Serrated Flange Lock Nuts

DIN & JIS Hex Serrated Flange Lock Nuts

All Metal Hex Flange Lock Nuts

Metric All Metal Hex Flange Lock Nuts

Nylon Insert Hex Flange Lock Nuts

Metric Nylon Insert Flange Lock Nuts

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

E8 USA HEX FLANGE SCREWS

E8 USA Hex Flange Screws are manufactured in accordance with the latest revision of the following industry standards:

IFI-111	Dimensional Requirements
ASME B18.2.1	Dimensional Requirements
SAE J429	Material and Strength Level
ASME B1.1	Thread Requirements
ASTM F788	Surface Discontinuities
ASME B18.18	Inspection and Quality Assurance

THREADS

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

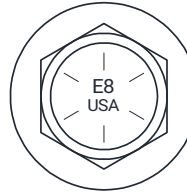
PLATING

Zinc Phosphate & Oil
Specialty plating options available upon request

*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. ©2023 Earnest Machine Products

MATERIAL AND PHYSICAL PROPERTIES

Grade 8



Chemical Composition Limits

CARBON (C)		PHOSPHORUS (P)	SULFUR (S)
Max	Min	Max	Max
0.55	0.25	0.025	0.025

Alloy

SAE J429 GRADE 8

Mn, Cr, Mo, Ni, V, B

Hardness

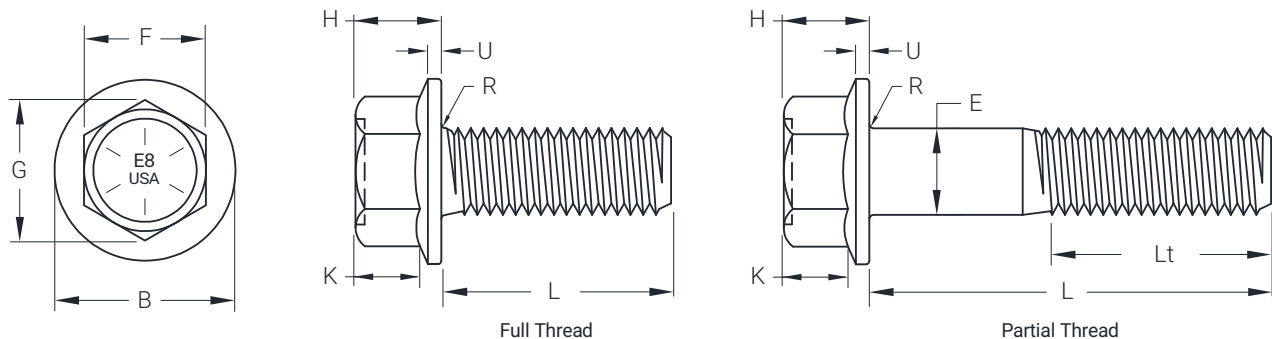
SAE J429 GRADE 8

HRC 33/39

Tensile Strength

SAE J429 GRADE 8

150,000 psi min



DIMENSIONS FOR USA E8 USA HEX FLANGE SCREWS

SIZE	WIDTH ACROSS FLATS (F)		WIDTH ACROSS CORNERS (G)		FLANGE DIAMETER (B)	BODY DIAMETER (E)		HEIGHT OF HEAD (H)	FLANGE THICKNESS (U)	WRENCH HEIGHT (K)	FILLET (R)	THREAD LENGTH (LT)
	MAX	MIN	MAX	MIN	MAX	MAX	MIN	MAX	MIN	MIN	MIN	MIN
5/16	0.500	0.489	0.577	0.548	0.68	0.3125	0.3065	0.32	0.05	0.21	0.015	0.875
3/8	0.562	0.551	0.650	0.618	0.81	0.3750	0.3690	0.39	0.06	0.25	0.015	1.000
1/2	0.750	0.736	0.866	0.825	1.07	0.5000	0.4930	0.51	0.08	0.34	0.015	1.250
5/8	0.937	0.922	1.083	1.034	1.33	0.6250	0.6170	0.62	0.10	0.42	0.020	1.500