

E10.9 USA Metric Heavy Hex Flange Bolts DFARS Compliant. Available in Class 10.9

Earnest Machine now offers USA made Metric Heavy Hex Flange Bolts, which are available in Property Class 10.9 with a Phos & Oil finish. E10.9 Metric USA Heavy Hex Flange Bolts are also DFARS compliant and diameters range from M8 to M16 with lengths ranging from 20mm to 70mm.

PRODUCT ATTRIBUTES

DFARS Compliant to meet US government regulations
Built-in washer distributes clamping load over wider area

Diameters range from M8 to M16
and lengths range from 20mm to 70mm

MARKETS FOR E10.9 USA HEAVY HEX FLANGE SCREWS

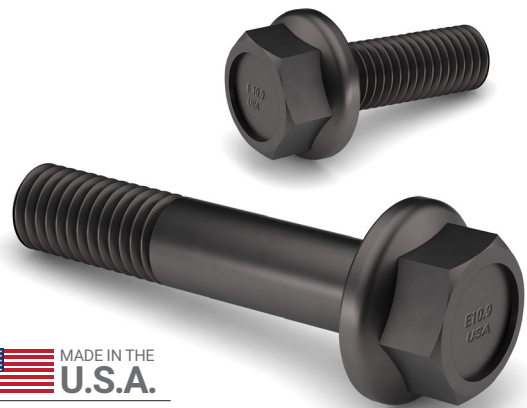
Heavy Truck
Construction Equipment
Agriculture Equipment
Automotive

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



 **MADE IN THE
U.S.A.**
DFARS COMPLIANT

ADDITIONAL USA MADE PRODUCT WE SUPPLY

USA Hex Nuts
E8 USA Hex Flange Screws
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**

E10.9 USA METRIC HEAVY HEX FLANGE BOLTS

E10.9 USA Metric Heavy Hex Flange Bolts are manufactured in accordance with the latest revision of the following industry standards:

ASME B18.2.3.9M	Dimensional Requirements
ISO 898-1	Material and Strength Level
ISO 261	Thread Requirements
ISO 6157-1	Surface Discontinuities
ISO 3269	Inspection and Quality Assurance

THREADS

Threads are made to the requirements of ISO 261
Coarse Threads Class 6g
Thread acceptance per ASME B1.3, System 21

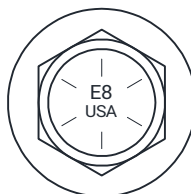
PLATING

Phos & 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

Property Class 10.9



Chemical Composition Limits

CARBON (C)		PHOSPHORUS (P)	SULFUR (S)	BORON (B)
Max	Min	Max	Max	Max
0.55	0.20	0.035	0.035	0.003

Alloy

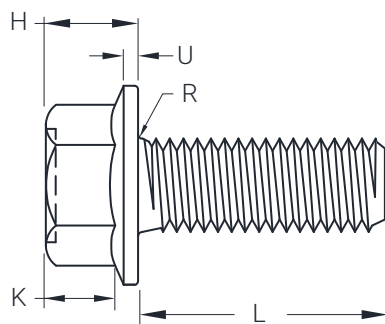
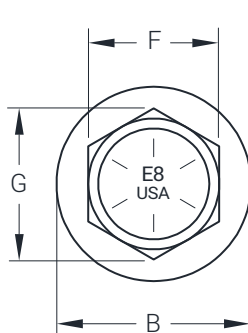
CLASS 10.9
Mn, Cr, Mo, Ni, V, B

Hardness

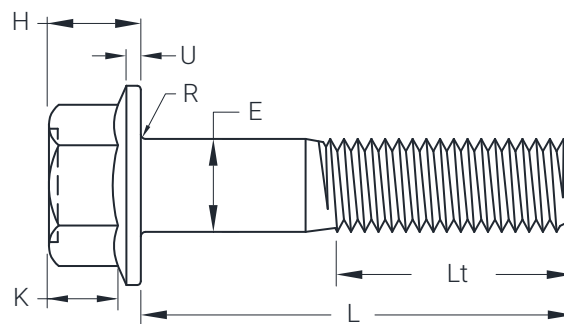
CLASS 10.9
HRC 32/39

Tensile Strength

CLASS 10.9
1040 MPa min



Full Thread



Partial Thread

DIMENSIONS FOR E10.9 USA METRIC HEAVY HEX FLANGE BOLTS

SIZE	WIDTH ACROSS FLATS (S)		WIDTH ACROSS CORNERS (E)	FLANGE DIAMETER (Dc)	BODY DIAMETER (Ds)		HEIGHT OF HEAD (K)	FLANGE THICKNESS (C)	WRENCH HEIGHT (Kw)	FILLET (R)	THREAD LENGTH (Lt)
	MAX	MIN	MIN	MAX	MAX	MIN	MAX	MIN	MIN	MIN	MIN
M8	13.0	12.57	14.08	18.0	8.0	7.78	8.1	1.2	3.6	0.4	22
M10	15.0	14.57	16.32	22.3	10.0	9.78	10.4	1.5	4.6	0.4	26
M12	18.0	17.57	19.68	26.6	12.0	11.73	11.8	1.8	5.2	0.6	30
M16	24.0	23.16	25.94	35.0	16.0	15.73	15.4	2.4	7.1	0.6	38