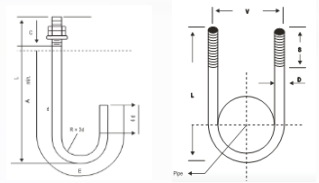




VIET THUONG

BOLTS & NUTS





INTRODUCTION

Viet Thuong Industrial Company was established in 2011 with the objectives of providing quality fasteners in field of Construction, Contracting & Plant Maintenance. We are importing & stocking quality products in fasteners from different countries such as Korea, Singapore, China and UK manufacturing

We has successfully handled different projects through supply of quality fasteners to reputed Construction and Contracting Companies in various companies.

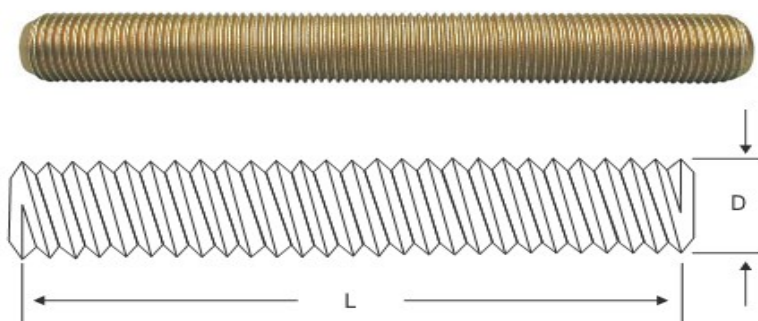
To cope up with growing activities and increasing demand of quality fasteners, specially products in according to ASTM standards for Vietnam market, we are corporate with our reputation manufactures in various countries where all products are inspected by experienced engineers and quality controllers which can ensure that the products are meet our customers demand. Effective inspection report with corresponding material certificate will be provided for each product.

We sincerely hope you will become our regular customers , let's corporate and create better future

Best regard.

Chairman.

STUD BOLTS



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SPECIFICATION:

1. The stud bolts will generally conform to ASTM A 193 Gr: B7, B7M, B16, B8, B8M , A320 B8, B8M, L7, A307B
2. Threads will conform to class 2A of united coars threads as per ANSI B1.1.
3. Material : medium carbon chromium Molybdeum steel, CR- Mo alloy Steel (Gr-Mo).
4. As per standard
5. All dimensions are in inches

Inches, Series, UNC/UN, Dimension.

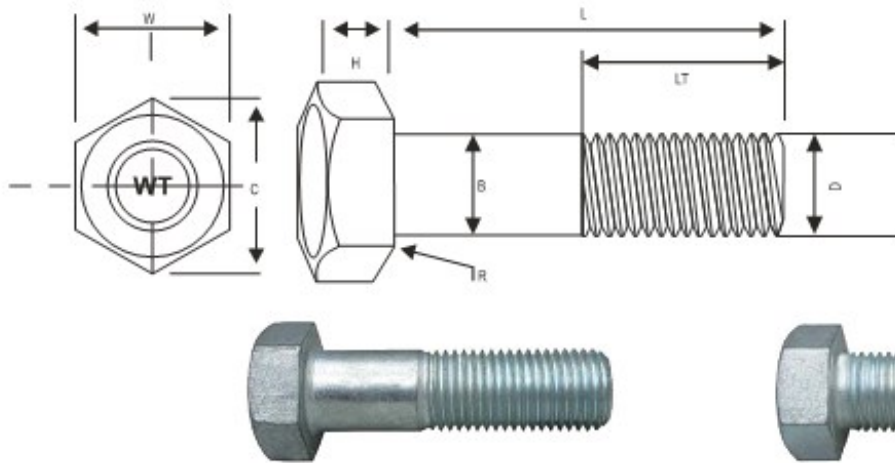
Nominal Thread size "D"	TPI		Length "L"
	UNC	UN	
1/2"	13	-	According to customers designation
5/8"	10	-	
3/4"	11	-	
7/8"	9	-	
1"	8	-	
1.1/8"	-	8	
1.1/4"	-	8	
1.3/8"	-	8	
1.1/2"	-	8	
1.5/8"	-	8	
1.3/4"	-	8	
1.7/8"	-	8	
2"	-	8	
2.1/8"	-	8	
2.1/4"	-	8	

Nominal Thread size "D"	TPI		Length "L"
	UNC	UN	
2.3/8"	13	-	According to customers designation
2.1/2"	10	-	
2.5/8"	11	-	
2.3/4"	9	-	
2.7/8"	8	-	
3"	-	8	
3.1/8"	-	8	
3.1/4"	-	8	
3.3/8"	-	8	
3.1/2"	-	8	
3.5/8"	-	8	
3.3/4"	-	8	
3.7/8"	-	8	
4"	-	8	

The length specified could be supplied against special order .

Coating: Self, Black, Electro galv. Cadmium, Hotdip Galv. Ceramic Fluoropolymer

HEX HEAD BOLT - ASTM A307A



FASTENERS

SPECIFICATION:

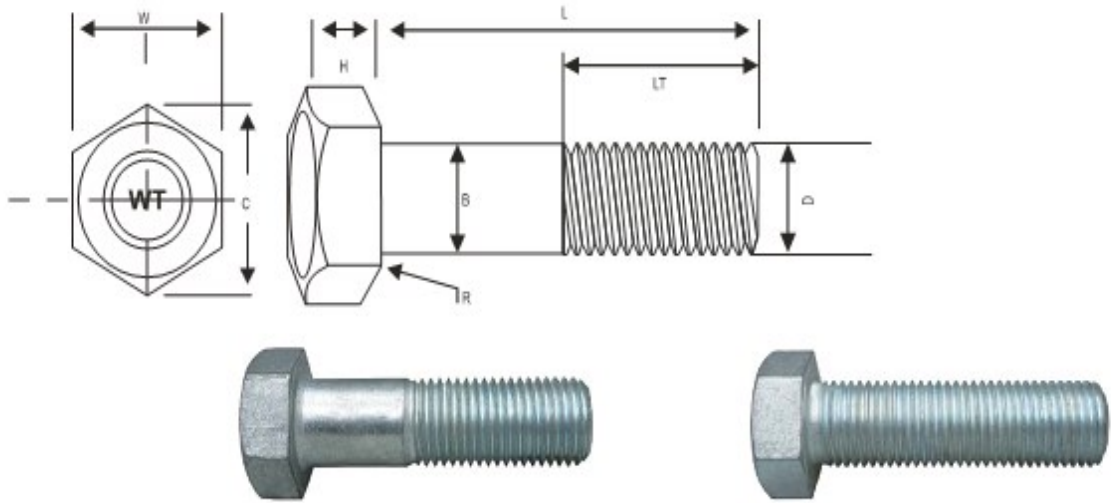
1. The Bolt will generally conform to ANSI / ASME B 18.2.1 Hex Bolts
2. Thread will conform to class 2A of ANSI B1.1 Coarse Series .
3. Material : Low Carbon Steel
4. Bolt lengths equal to or shorter than those listed in column / LFT will be fully threaded
5. All dimensions are in inches

Nominal Thread size "D"	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread			Length Range
							L ≤ 6"	L ≥ 6"	LFT	
3/8"	16	0.562	0.650	0.388	1/4"	0.01	1.00	1.25	FT	1/2" - 8"
1/2"	13	0.750	0.866	0.515	11/32"	0.01	1.25	1.50	FT	3/4" - 12"
5/8"	11	0.938	1.083	0.642	27/64"	0.02	1.50	1.75	FT	1" - 12"
3/4"	10	1.125	1.299	0.768	1/2"	0.02	1.75	2.00	FT	1.1/2" - 12"
7/8"	9	1.312	1.516	0.895	37/64"	0.02	2.00	2.25	FT	1.1/2" - 12"
1"	8	1.500	1.732	1.022	43/64"	0.02	2.25	2.50	FT	1.1/2" - 12"
1.1/8"	7	1.688	1.949	1.149	3/4"	0.03	2.50	2.75	FT	2" - 12"
1.1/4"	7	1.875	2.165	1.277	27/32"	0.03	2.75	3.00	FT	2" - 12"
1.3/8"	6	2.062	2.382	1.404	29/32"	0.03	3.00	3.25	FT	2.1/2" - 12"
1.1/2"	6	2.250	2.598	1.531	1"	0.03	3.25	3.50	FT	2.1/2" - 12"

Material grade: ASTM A307A.

Coating: Black ,Hot dip Galv., Electro Galv.

HEAVY HEX HEAD BOLT - ASTM A307B



FASTENERS

SPECIFICATION:

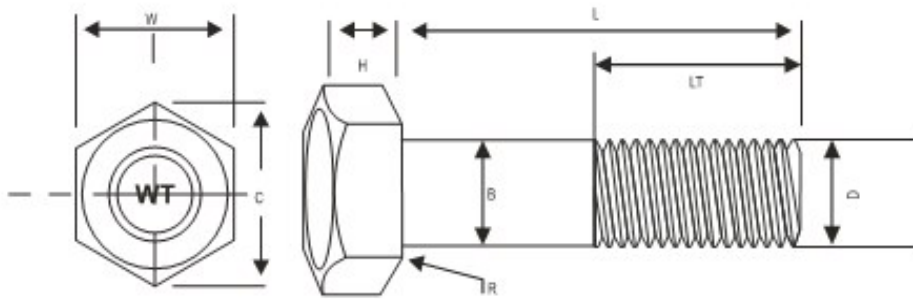
1. The Bolts will generally conform to ASNI / ASME B18.2.1Hex Bolts
2. Threaded will conform to class 2A of ANSI B.1.1.Coarse series
3. Material : low carbon steel
4. Bolt lengths equal to or shorter than those listed in column / LFT will be fully threaded. Thread length LT
- 5.ALL dimensions are in inches

Nominal Thread	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread			Length
							L ≤6"	L ≥6"	LFT	Range
1/2"	13	0.875	1.010	0.515	11/32"	0.01	1.25	1.50	FT	3/4" - 12"
5/8"	11	1.062	1.227	0.642	27/64"	0.02	1.50	1.75	FT	1" - 12"
3/4"	10	1.250	1.443	0.768	1/2"	0.02	1.75	2.00	FT	1.1/2" - 12"
7/8"	9	1.438	1.660	0.895	37/64"	0.02	2.00	2.25	FT	1.1/2" - 12"
1"	8	1.625	1.876	1.022	43/64"	0.03	2.25	2.50	FT	1.1/2" - 12"
1.1/8"	7	1.812	2.093	1.149	3/4"	0.03	2.50	2.75	FT	2" - 16"
1.1/4"	7	2.000	2.309	1.277	27/32"	0.03	2.75	3.00	FT	2" - 16"
1.3/8"	6	2.188	2.526	1.404	29/32"	0.03	3.00	3.25	FT	2.1/2" - 16"
1.1/2"	6	2.375	2.742	1.531	1"	0.03	3.25	3.50	FT	2.1/2" - 16"
1.5/8"	5	2.618	3.022	1.680	1.10"	0.03	3.50	3.75	FT	3" - 16"
1.3/4"	5	2.805	3.238	1.800	1.18"	0.04	3.50	3.75	FT	3.1/2" - 16"
1.7/8"	4.5	3.000	3.450	1.928	1.26"	0.04	4.00	4.25	FT	4" - 16"
2"	4.5	3.160	3.650	2.041	1.33"	0.04	4.25	4.50	FT	4.1/2" - 16"
2.1/4"	4.5	3.550	4.100	2.100	1.495"	0.04	5.00	5.25	FT	5" - 16"
2.1/2"	4	3.950	4.570	2.234	1.66"	0.04	5.50	5.75	FT	5.1/2" - 16"

Material grade: ASTM A307B.

Coating: Black ,Hot dip Galv., Electro Galv.

HEAVY HEX HEAD BOLT - ASTM A325M



FASTENERS

SPECIFICATION:

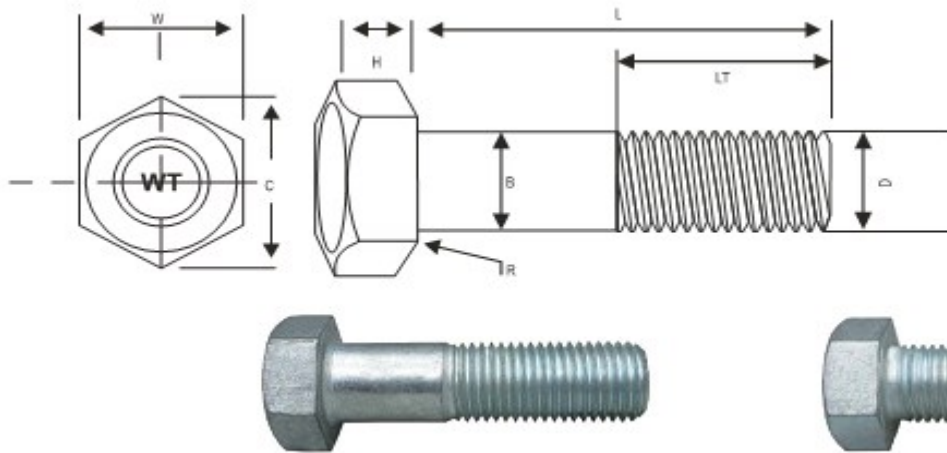
1. The bolts will generally conform to ANSI / ASME 818.2.3.7M Metric heavy Hex Structural Bolts
2. Threads will conform to Class 6g of ANSI B.1.13M Coarse Series
3. Material : High Grade Carbon / Alloy Steel
4. Heat Treatment as per ASTM A325M or ASTM F568M Class 8.8
5. Thread Length LT
 LT 1 for $L < 100$
 LT 2 for $L > 100$
6. All dimensions are in millimeters .

Nominal Thread size	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread			Length Range
							LT1	LT2	LFT	
M12	1.75	22.0	25.40	12.70	8.00	0.60	25	25	FT	25 - 150
M16	2.00	27.0	31.88	16.70	10.00	0.60	31	38	FT	30 - 300
M20	2.50	34.0	39.26	20.84	12.50	0.80	36	43	FT	35 - 300
M22	2.50	36.0	41.57	22.84	14.00	0.80	38	45	FT	40 - 300
M24	3.00	41.0	47.34	24.84	15.00	1.00	41	48	FT	40 - 300
M27	3.00	46.0	52.12	27.84	17.00	1.20	44	51	FT	60 - 300
M30	3.50	50.0	57.74	30.84	18.70	1.20	49	56	FT	60 - 400
M36	4.00	60.0	69.28	37.00	22.50	1.50	56	63	FT	70 - 300
M39	4.00	65.0	75.00	39.50	24.37	1.62	61	68	FT	75 - 300

Material grade: ASTM A325M.

Coating: Black ,Hot dip Galv., Electro Galv.

HEAVY HEX HEAD STRUCTURAL BOLT - ASTM A490



FASTENERS

SPECIFICATION:

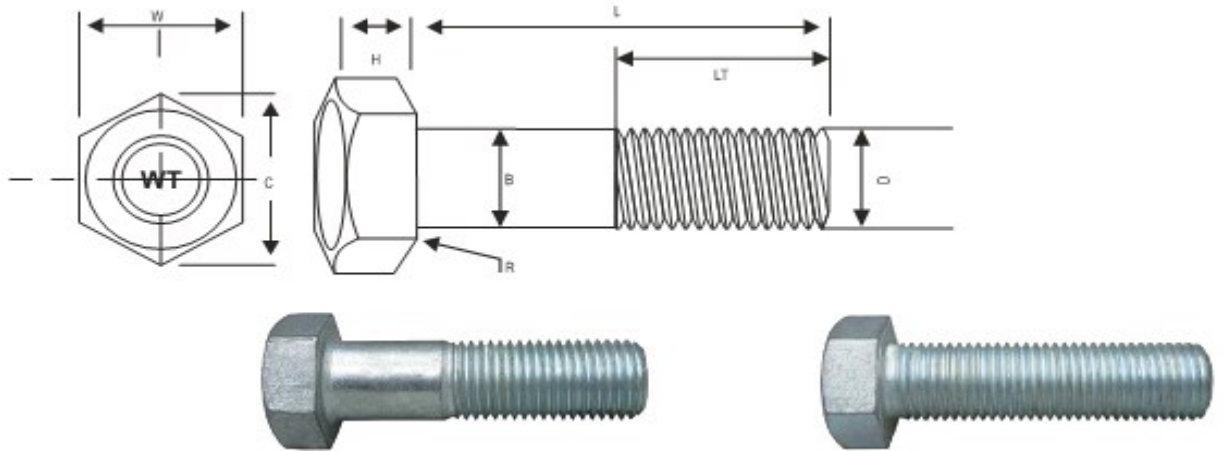
1. The Bolts will generally conform to ANSI / ASME B18.2.1 Heavy Hex Structural Bolts
2. Thread will conform to Class 2A of ANSI B.1.1 Coarse Series
3. Material : Alloy Steel
4. Heat Treatment : As per ASTM A490 Type-1
5. All Dimensions are in inches .

Nominal Thread size	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread	Length Range
							LT	
1/2"	13	0.88	1.010	0.515	5/16"	0.009"	1.00"	1.1/2" - 4"
5/8"	11	1.06	1.227	0.642	25/64"	0.021"	1.25"	1.1/2" - 8"
3/4"	10	1.25	1.443	0.768	15/32"	0.021"	1.38"	1.1/2" - 8"
7/8"	9	1.44	1.660	0.895	35/64"	0.031"	1.50"	1.1/2" - 8"
1"	8	1.63	1.876	1.022	39/64"	0.062"	1.75"	1.1/2" - 8"
1.1/8"	8	1.81	2.093	1.149	11/16"	0.062"	2.00"	2" - 8"
1.1/4"	8	2.00	2.309	1.277	25/32"	0.062"	2.00"	2" - 8"
1.3/8"	8	2.19	2.526	1.404	27/32"	0.062"	2.00"	2.1/2" - 8"
1.1/2"	8	2.38	2.742	1.531	25/32"	0.062"	2.00"	2.1/2" - 8"

Material grade: ASTM A490.

Coating: Black ,Hot dip Galv., Electro Galv.

HEAVY HEX HEAD STRUCTURAL BOLT - ASTM A490M



FASTENERS

SPECIFICATION:

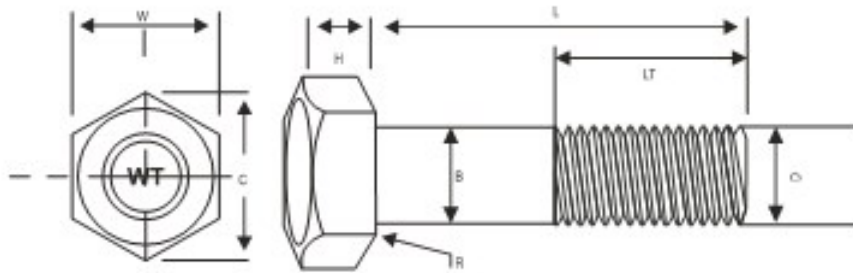
1. The Bolts will generally conform ANSI / ASME B18.2.3.7M Metric Heavy Hex Structural Bolts
2. Threads will conform to Class 6g of ANSI B.1.13M Coarse Series
3. Material : Carbon / Alloy Steel
4. Heat Treatment as per ASTM A490 OR ASTM F568M Class 10.9
5. Thread Length LT
LT1 for $L < 100$
LT2 for $L > 100$
6. All dimensions are in millimeters

Nominal Thread size	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread		Length Range 'L'
							LT1	LT2	
M12	1.75	22	25.4	12.7	8.0	0.6	25	25	30 - 100
M16	2	27	31.9	16.7	10.0	0.6	31	38	30 - 300
M20	2.5	34	39.3	20.8	12.5	0.8	36	43	35 - 300
M22	2.5	36	41.6	22.8	14.0	0.8	38	45	50 - 200
M24	3	41	47.3	24.8	15.0	1.0	41	48	40 - 200
M27	3	46	52.1	27.8	17.0	1.2	44	51	60 - 300
M30	3.5	50	57.7	30.8	18.7	1.2	49	56	60 - 400
M36	4	60	69.3	37.0	22.5	1.5	56	63	70 - 300
M39	4	65	75.0	39.5	24.4	1.6	61	68	75 - 300

Material grade: ASTM A490M

Coating: Black ,Hot dip Galv., Electro Galv.

HEX HEAD BOLT / SCREW - DIN 931/933 UNC THREAD



FASTENERS

SPECIFICATION:

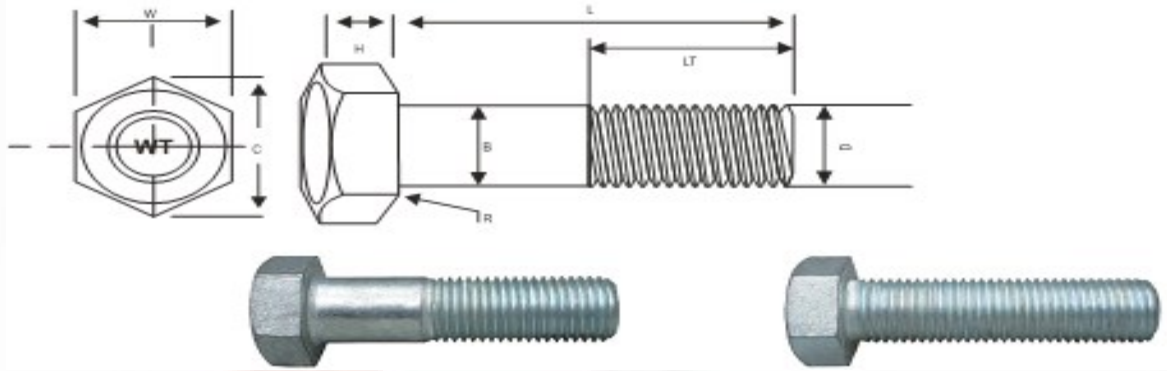
1. The bolt will generally conform to ANSI / ASME B 18.21 Hex Bolts
2. Thread will conform to Class 2A of ANSI B1.1 Coarse Series
3. Material : Low Carbon Steel
4. Bolt lengths equal to or shorter than listed in column / LFT will be fully threaded
5. All dimensions are in inches

Nominal Thread size	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread			Length Range
							L ≤ 6"	L ≥ 6"	LFT	
1/4"	20	0.433	0.511	0.250	5/32"	0.01	3/4"	3/4"	FT	1/2" - 6"
5/16"	18	0.493	0.560	0.310	7/32"	0.01	7/8"	1/4"	FT	1/2" - 6"
3/8"	16	0.562	0.650	0.388	1/4"	0.01	1.1/2"	1.1/4"	FT	1/2" - 6"
1/2"	13	0.750	0.866	0.515	11/32"	0.01	1.1/4"	1.1/2"	FT	3/4" - 12"
5/8"	11	0.938	1.083	0.642	27/64"	0.02	1.1/2"	2"	FT	1" - 12"
3/4"	10	1.125	1.299	0.768	1/2"	0.02	1.3/4"	2.1/4"	FT	1.1/2" - 12"
7/8"	9	1.312	1.516	0.895	37/64"	0.02	2"	2.1/2"	FT	1.1/2" - 12"
1"	8	1.500	1.732	1.022	43/64"	0.02	2.1/4"	3"	FT	1.1/2" - 12"
1.1/8"	7	1.688	1.949	1.149	3/4"	0.03	2.1/2"	3.1/4"	FT	2" - 12"
1.1/4"	7	1.875	2.165	1.277	27/32"	0.03	2.3/4"	4"	FT	2" - 12"
1.3/8"	6	2.062	2.382	1.404	29/32"	0.03	3"	4.1/2"	FT	2.1/2" - 12"
1.1/2"	6	2.25	2.598	1.531	1"	0.03	3.1/4"	5"	FT	2.1/2" - 12"

Material grade: 4.8, 5.8, A307A, A307B, SS304, SS316

Coating: Black Electro Galv. Hot dip Galv, Cadmium Plate

HEX HEAD BOLT / SCREW - DIN 931 / 933 (METRIC)



FASTENERS

SPECIFICATION:

1. The bolts & screws will generally conform to ISO 4014 , ISO 4017 and DIN 931/933.
2. Threads will conform to class 6g of ISO 965/2, Coarse Series.
3. Material High grade carbon / alloy steel.
4. Heat Treatment : Property Class 8.8 or 10.9*
5. Thread Length LT LT1 for L < 125 LT2 for L > 125 to 200 LT3 for L > 200
6. Screw Length equal to or shorter than listed in column 'LFT' will be fully threaded.
7. All dimensions are in millimeters

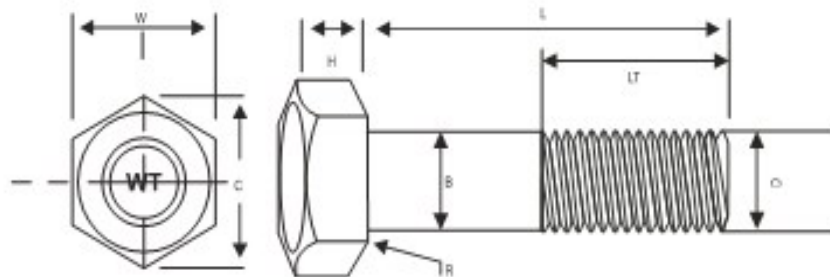
TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread				Length Range (L)
						LT1	LT2	LT3	LFT	
1.00	10.0	11.05	6.0	4.0	0.3	18	-	-	FT	10 - 150
1.25	13.0	14.98	8.0	5.3	0.4	22	28	-	FT	12 - 150
1.50	17.0 - 16.0	18.90 - 17.80	10.0	6.4	0.4	26	32	45	FT	16 - 250
1.75	19.0 - 18.0	21.10 - 20.03	12.0	7.5	0.6	30	36	49	FT	20 - 250
2.00	22.0 - 21.0	24.49 - 23.25	14.0	8.8	0.6	34	40	53	FT	25 - 200
2.00	24.0	26.75	16.0	10.0	0.6	38	44	57	FT	25 - 400
2.50	27.0	30.14	18.1	11.5	0.6	42	48	61	FT	35 - 200
2.50	30.0	33.53	20.0	12.5	0.8	46	52	65	FT	30 - 400
2.50	32.0 - 34.0	35.72 - 37.72	22.0	14.0	0.8	50	56	69	FT	40 - 200
3.00	36.0	39.98	24	15	0.8	54	60	73	FT	50 - 450
3.00	41.0	45.20	27	17	1.0	60	66	79	FT	60 - 300
3.50	46.0	50.85	30	18.7	1.0	66	72	85	FT	60 - 400
3.50	50.0	55.37	33	21	1.0	72	78	91	FT	75 - 500
4.00	55.0	60.79	36	22.5	1.0	78	84	97	FT	80 - 500
4.00	60.0	66.44	39	25	1.0	84	90	103	FT	80 - 500
4.50	65.0	72.02	42	26	1.2	90	96	109	FT	90 - 500
4.50	69.5	77.00	45	27.8	1.2	90	96	109	FT	90 - 500

Material grade: 4.8, 5.8, 6.8, 8.8, 10.9, 12.9, SS304, SS316

Coating: Black Electro Galv. Hot dip Galv, Cadmium Plate

Dimension in accordance with revised standard in the process of being implemented

HIGH STRENGTH HEX HEAD BOLTS - DIN 7990



SPECIFICATION:

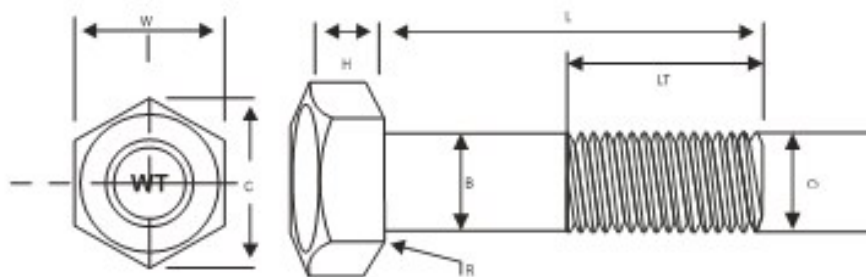
1. The Bolts & Screws will generally conform to DIN 7990
2. Threads will conform to Class 6g of DIN 13 Coarse Series
3. Material : Carbon / Alloy Steel
4. Heat Treatment : To achieve Mechanical properties of Class 4.6, 5.8, 6.8, 8.8, 10.9
5. All dimensions are in millimeters

Nominal Thread size	TPI UNC	W Max	C Min	B Max	H Nom.	R Min	Length of Thread	Length Range (L)
							LT1	
M12	1.75	19	21.10	12.00	8.00	0.60	17.7	25-120
M16	2.00	24.0	26.16	16.70	10.00	0.60	21.0	30-150
M20	2.50	30.0	32.95	20.84	12.50	0.80	23.5	35-200
M22	2.50	32	35.03	22.84	14.00	0.80	25.5	45-200
M24	3.00	36.0	39.55	24.84	15.00	0.80	26.0	50-200
M27	3.00	41.0	45.20	27.84	17.00	1.00	29.0	70-200
M30	3.50	46.0	50.80	30.84	19.00	1.00	30.5	80-300

Material grade: 4.6, 5.8, 6.8, 8.8, 10.9

Coating: Black Electro Galv. Hot dip Galv, Cadmium Plate

HIGH STRENGTH HEX HEAD BOLTS DIN 6914



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SPECIFICATION:

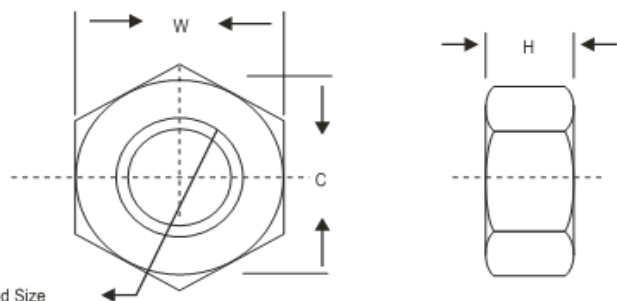
1. The Bolts will generally conform to DIN 6914 High Strength Hex Head Bolts
2. Threads will conform to Class 6g of DIN 13 Coarse Series
3. Material : High Grade Carbon / Alloy Steel
4. Heat Treatment : To achieve mechanical properties of Class 10.9
5. Thread Length LT1& LT2
6. All dimensions are in millimeters

Thread size	UNC	Max	Min	Max	Nom.	Min	LT1	LT2	Range (L)
M12	1.75	22	23.90	12.70	8.00	1.20	25.0	25.0	30-200
M16	2.00	27.0	29.56	16.70	10.00	1.20	31.0	38.0	35-200
M20	2.50	34.0	35.03	20.84	12.50	1.50	36.0	43.0	40-300
M22	2.50	36	39.55	22.84	14.00	1.50	38.0	45.0	50-200
M24	3.00	41.0	39.55	24.84	15.00	1.50	41.0	48.0	50-300
M27	3.00	46.0	45.20	27.84	17.00	2.00	44.0	51.0	60-200
M30	3.50	50.0	50.80	30.84	19.00	2.00	49.0	56.0	60-300
M36	4.00	60.0	66.40	37.0	22.5	2.00	56.0	63.0	70-300
M39	4.00	65.0	75.00	39.5	24.4	1.62	61.0	48.0	75-300

Material grade: 4.6, 5.8, 6.8, 8.8, 10.9

Coating: Black Electro Galv. Hot dip Galv, Cadmium Plate

HEAVY HEX NUTS - ASTM A563/GR. A & C



FASTENERS

SPECIFICATION:

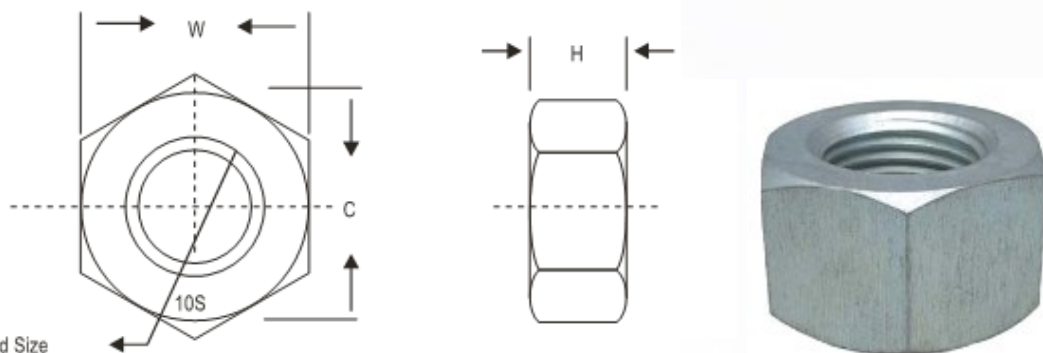
1. The nut will generally conform ANSI / ASME 18.2.2 heavy hex nuts.
2. Threads will conform to class 2B of ANSI B1.1
3. In Bolts / Nut assembly tightening should be done by rotation of nuts. Torque values as recommended in tables for bolt
4. All dimension are in inches. All dimensions are in millimeters

Nominal Thread size	TPI UNC	W Max	C Min	H Nom
1/2"	13	0.875"	1.010"	0.484"
9/16"	12	0.938"	1.083"	0.547"
5/8"	11	1.062"	1.227"	0.609"
3/4"	10	1.250"	1.443"	0.734"
7/8"	9	1.238"	1.660"	0.859"
1"	8	1.625"	1.876"	0.984"
1.1/8"	7	1.812"	2.093"	1.109"
1.1/4"	7	2.000"	2.309"	1.219"
1.3/8"	6	2.188"	2.526"	1.344"
1.1/2"	6	2.375"	2.742"	1.469"
1.5/8"	5	2.562"	2.959"	1.594"
1.3/4"	5	2.750"	3.175"	1.719"
1.7/8"	4.5	2.938"	3.392"	1.844"
2"	4.5	3.125"	3.608"	1.969"
2.1/4"	4	3.500"	4.041"	2.203"
2.1/2"	4	3.875"	4.474"	2.453"
2.3/4"	4	4.250"	4.907"	2.703"
3"	4	4.625"	5.340"	2.953"
3.1/4"	4	5.000"	5.774"	3.188"
3.1/2"	4	5.375"	6.207"	3.438"
3.3/4"	4	5.755"	6.650"	3.683"
4"	4	6.142"	7.093"	3.930"

Material grade: ASTM, A563, Gr. A&C

Coating: Black, Hot dip Galv., Electro Galv.

HEAVY HEX NUTS - ASTM A563 M (10S)



FASTENERS

SPECIFICATION:

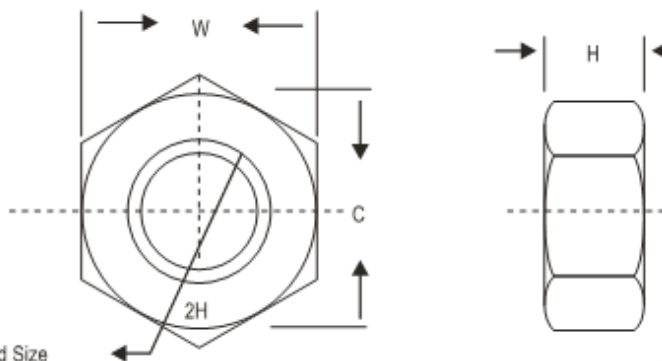
1. The nut will generally conform ANSI B18.2.4.6M metric Heavy Hex Nuts.
2. Threads will conform to class 6H of ANSI B1.1.13M for coarse series.
3. Heat Treat ment: to achieve mechanical properties of Property Class 8S or 10S of A563M.
4. Nuts of property Class 8S are used with bolts of ASTM A325M type 1 and 2 (con coated).
5. Nuts of property Class 10S are used with Bolts of ASTM A325M Type 1 & 2 (zinc - coated).
6. In general: Nuts of higher properties Class can replace Nuts of Lower properties Class
7. In Bolts / Nut assembly tightening should be done by rotation of nuts.
8. Sizes in brackets are non preferred standards.
9. All dimension are in millimeter.

Nominal Thread size	TPI UNC	W Max	C Min	B Max
M12	1.75	21.00	24.25	12.10
M14	2	24.00	27.71	13.95
M16	2	27.00	31.18	16.75
M20	2.5	34.00	39.26	20.05
M22	2.5	36.00	41.57	22.95
M24	3	41.00	47.34	23.55
M27	3	46.00	53.12	26.95
M30	3.5	50.00	57.74	29.90
M33	3.5	56.00	65.00	32.90
M36	4	61.00	71.00	35.90
M39	4	66.00	77.00	38.90
M42	4.5	71.00	83.00	41.90
M45	4.5	76.00	89.00	44.90
M48	5	82.00	95.00	42.90
M52	5	86.50	100.30	51.00
M56	5.5	93.00	107.00	54.75
M60	5.5	100.00	115.00	58.50
M64	6	106.00	123.00	62.25
M72	6	120.00	138.00	70.00
M76	6	126.50	146.00	74.00
M82	6	136.50	157.00	80.00
M90	6	136.50	173.00	87.50

Material grade: ASTM A563-10S

Coating: Black ,Hot dip Galv., Electro Galv.

HEAVY HEX NUTS - ASTM A194



Normal Thread Size



FASTENERS

SPECIFICATION:

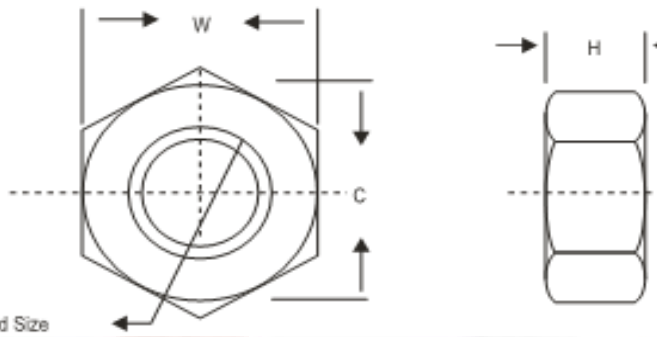
- 1.The nut will generally conform ANSI/ASME B18.2.2 Heavy Hex Nuts.
 - 2.Threads will conform to class 2B of ANSI B1.1.
 - 3.Material and heat treatment: To achieve mechanical properties of grade 2H, 4 and 7 which conform the requirements of ASTM A194.
 - 4.In Bolts/Nut assembly, Tightening should be done by rotation of nut Torque values as recommended in tables for bolts.
 - 5.All dimensions are in inches.
- Inch series, UNC/UNF dimensions

Thread size	TPI UNC/UN	W Max	C Max	H Norm.
1/2"	13	0.875"	1.010"	0.484
9/16"	12	0.938"	1.083"	0.547
5/8"	11	1.062"	1.227"	0.609
3/4"	10	1.150"	1.443"	0.734
7/8"	9	1.238"	1.660"	0.859
1"	8	1.625"	1.876"	0.984
1.1/8"	8	1.812"	2.093"	1.109
1.1/4"	8	2.000"	2.309"	1.219
1.3/8"	8	2.188"	2.526"	1.344
1.1/2"	8	2.375"	2.742"	1.469
1.5/8"	8	2.562"	2.959"	1.594
1.3/4"	8	2.750"	3.175"	1.719
1.7/8"	8	2.938"	3.392"	1.844
2"	8	3.125"	3.608"	1.969
2.1/4"	8	3.500"	4.041"	2.203
2.1/2"	8	3.875"	4.474"	2.453
2.3/4"	8	4.250"	4.907"	2.703
3"	8	4.625"	5.340"	2.953
3.1/4"	8	5.000"	5.774"	3.188
3.1/2"	8	5.375"	6.207"	3.438
3.3/4"	8	5.755"	6.650"	3.683
4"	8	6.142"	7.093"	3.93

Material grade: 2H, 2HM, GR4, GR7, B8, B8M

Coating: Black, Hot dip Galv., Electro Galv.

HEX NUTS ISO 934 / DIN 555



Normal Thread Size



FASTENERS

SPECIFICATION:

1. The nut will generally conform to DIN 934 , DIN 555 & BS3692.
2. Thread will conform to class 6H of DIN 13 Coarse Series
3. Heat Treatment : to achieve mechanical properties to property Class 8 or 10
4. Nuts of property Class 8 are used with bolts of property Class 8.8
Nuts of property Class 10 are used with bolts of property Class 10.9
5. In Bolts / Nut assembly tightening should be done by rotation of nuts
6. All dimension are in millimeters

Thread size	TPI UNC/UN	W Max	C Max	H Norm.
M06	1.00	10.00	11.05	5.00
M08	1.25	13.00	14.38	6.50
M10	1.50	17.00	18.90	8.00
M12	1.75	19.00	21.00	10.00
M14	2.00	22.00	24.49	11.00
M16	2.00	24.00	26.75	13.00
M18	2.50	27.00	29.56	15.00
M20	2.50	30.00	32.95	16.00
M22	2.50	32.00	35.03	18.00
M24	3.00	36.00	39.55	19.00
M27	3.00	41.00	45.20	22.00
M30	3.50	46.00	50.85	24.00
M33	3.50	50.00	55.37	26.00
M36	4.00	55.00	60.79	29.00
M39	4.00	60.00	66.44	31.00
M42	4.50	65.00	71.30	34.00
M45	4.50	69.64	76.25	36.40
M48	5.00	74.28	81.40	38.75
M52	5.00	80.00	88.00	51.00
M56	5.50	86.50	96.00	54.75
M60	5.5	92.85	101.5	58.5
M64	6.00	99.00	108.00	62.25

Material grade: 4, 6, 8, 10, SS304, SS316

Coating: Electro Galv., Black, Hot dip Galv., Cadmium Plated.

FLAT WASHER ASTM F436 M



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Nominal Thread size	MM	Internal Dia	External Dia
12	13.5	17.5	1.50
16	17.5	24	3.00
20	20.6	38	3.00
22	26.5	45	3.50
24	28.5	50	3.50
27	30	60	3.50
30	32.5	62	3.50
33	34.5	68	4.00
36	38	74	4.50
39	42	76	4.50
42	45.6	84	4.50
45	48.6	92	4.50
48	52.7	95	4.50
52	58.7	104	6.10
56	62.7	107	6.10
60	66.6	114	6.10
64	70.7	118	6.10
72	78.7	130	6.10
76	82.8	137	6.10
80	86.9	142	6.1
90	96.9	159	6.1
100	107.9	176	6.1

Material grade: SAE1045, Hardened

Coating: Black ,Hot dip Galv., Electro Galv.

FLAT WASHER DIN 125 A / DIN 126 A



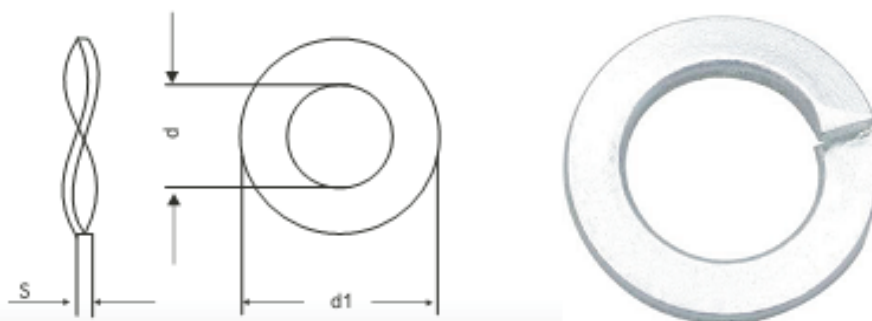
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Nominal Thread size	MM	Internal Dia	External Dia
M06	6.6	12.5	1.60
M08	8.6	16	1.60
M10	11	21	2.00
M12	14	24	2.50
M14	16	28	2.50
M16	18	30	3.15
M18	20	34	3.15
M20	22	37	3.15
M22	24	39	3.15
M24	26	44	4.00
M27	30	50	4.00
M30	33	56	4.00
M33	36	60	5.00
M36	39	66	5.00
M39	42	72	6.00
M42	45	78	6.00
M45	48	85	8.00
M48	52	92	8.00
M52	56	100	8.00
M56	60	108	8
M60	64	116	8
M64	68	124	8

Material grade: ASTM A36, C45, CRC, SS 304, SS316, Brass, Copper, Silicon Bronze Galv.

Coating: Black, Electro Galv., Cadmium Plated & Hot dip Galv.

SPRING LOCK WAHERS - DIN 127



FASTENERS

MM	Internal Dia	External Dia	Thickness mm
06	6.5	9	1.20
08	8.5	12	1.25
10	10.5	15	1.50
12	13.5	17.5	1.50
16	17.5	24	3.00
20	20.6	38	3.00
22	23.5	45	3.50
24	28.5	50	3.50
27	30	60	3.50
30	32.5	62	3.50
33	34.5	68	4.00
36	38	74	4.50
39	42	76	4.50

Material grade: SAE1045 , Hardened, A36, C4S, SS304, SS316, Brass Copper.

Coating: Black, Electro Galv. Hot dip Galv.



BUSINESS CONTACT INFORMATION.

VIET THUONG INDUSTRIAL COMPANY LIMITED.

Office: Floor 5th, Blue Berry Building, 9-11 D52 Street, ward 12th, Tan Binh District, Ho Chi Minh city, Vietnam.

Tel: +84-028-38116063 | +84-028-38116036 | Fax: +84-028-38116034 |

H/P: +84-933.516.879

Email: trung.vo@vthco.com or sales@vthco.com

Website: <http://www.vthco.com> or www.inoxvietthuong.com.vn

Facebook: <https://www.facebook.com/viet.thuong.376>