

# DUC KHANH CO., LTD

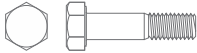


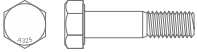
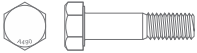



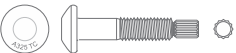
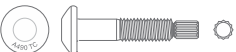


## Fasteners Product Catalog





# STRUCTURAL ASSEMBLIES

Metric		Size	Property Class	Standard
■ Heavy Hex Structural Bolt		M12 to M36	Type 1 8S	A325M
■ Heavy Hex Nut		M16 to M36	10S / 8S	A563M
■ Structural Washer		M12 to M36	38-45 HRC (Plain) 26-45 HRC min (HDG)	F436M
Inch		Size	Tensile Strength/Hardness	Standard
■ Heavy Hex Structural Bolt		1/2 to 1 1/4	120,000 psi (1/2 to 1 dia) 105,000 psi (1 1/8 to 1 1/2 dia)	ASTM A325
■ Heavy Hex Structural Bolt		1/2 to 1 1/4	150,000 - 173,000 psi	ASTM A490
■ Heavy Hex Nuts Grade DH		1/4 to 2	C24 - C38	ASTM A563
■ Heavy Hex Nut Grade 2H		1/4 to 2	24-35 HRC	ASTM A194 2H
■ Hardened Washer		1/4 to 1 3/8	38-45HRC (coated) 26-45 HRC (HDG)	ASTM F436
■ Tension Control Structural Bolt*		5/8 to 1 1/8	120,000 psi (1/2 to 1 dia) 105,000 psi (1 1/8 to 1 1/2 dia)	ASTM F1852
■ Tension Control Structural Bolt*		1/2 to 1 1/8	150,000 - 173,000 psi	ASTM F2280





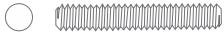

# STRUCTURAL ASSEMBLIES

Metric		Size	Property Class	Standard
■ System HR Structural Bolt		M12 to M36	8.8 / 10.9	BS EN 14399-3
■ System HR Pre-Load Nut		M12 to M36	8 / 10	BS EN 14399-3
■ System HV Structural Bolt		M12 to M36	10.9	BS EN 14399-4
■ System HV Pre-Load Nut		M12 to M36	10	BS EN 14399-4
■ Plain Non-Chamfered Washer Plain Chamfered Washer		M12 to M36	HV 300 to 370	BS EN 14399-5 BS EN 14399-6
■ Tension Control Structural Bolt*		M12 to M30	10.9	BS EN 14399-10 JSS II 09
■ Pre-Load Nut		M12 to M30	10	BS EN 14399-10 (h=d)
■ Non Pre-Load Structural Bolt		M12 to M36	4.8, 8.8, 10.9	BS EN 15048-1, 2
■ Non Pre-Load Structural Nut		M12 to M36	5, 8, 10, 12	BS EN 15048-1, 2
■ High-Strength Structural Bolt		M12 to M36	8.8	AS1252 - 1983 Dimensional AS1252 - 1996 Mechanical
■ Structural Nut		M12 to M36	8	AS1252 - 1983 Dimensional AS1252 - 1996 Mechanical
■ Structural Washer		M12 to M36	35-45HRC	AS1252 - 1983 Dimensional AS1252 - 1996 Mechanical









Metric		Size	Property Class	Standards
■ Stud Bolt		M12 to M56	B7, B7M, B8, B8M, B16, L7, L7M	ASTM A193M, ASTM A320M
■ Nut		M12 to M56	2H, 2HM, 4, 7, 8, 8M	ANSI B18.2.4.6M, A194M

Inch		Size	Grade	Standards
■ Stud Bolt		1/2 to 2 1/4	B7, B7M, B8, B8M, B16, L7, L7M	ASTM A193, ASTM A320
■ Nut		1/2 to 2	2H, 2HM, 4, 7, 8, 8M	ASTM A194

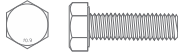


## Self locking, AntiVibration Fasteners

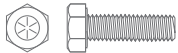
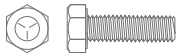
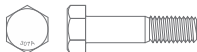
Metric		Size	Property Class	Tensile Strength	Standard
■ Bolt		M6 to M20	12.9	1220 N/mm2 min	DIN6921
■ Nut		M6 to M20	12		DIN6923
■ Washer&Lock Washer		M6 to M30		HRC 47 to 52	DIN9250S DIN25201
■ Safety Washer		M6 to M20		HRC 47 to 52	DIN9250VS

NOTE: 1. Bolts & Nuts do not require a washer. 2. washers are designed for use with standard hex bolts & nuts. washers are always used in pairs & must not be used with other flat washers.

## HEX BOLTS / SCREWS

Metric		Size	Property Class	Tensile Strength	Standard
■ Hex Head Bolt/Screw		M4 to M100	4.8-12.9	400-1200MP A	ISO 4017 (Full Thread) ISO 4014 (Half Thread)




  






Inch		Size	Grade	Tensile Strength	Standard
■ Hex Cap Screw		1/4 to 2	8	150,000 psi min	ASME B18.2.1
■ Hex Cap Screw		1/4 to 2	5	120,000 psi min (1/4 to 1) 105,000 psi min (over 1 to 1-1/2)	ASME B18.2.1
■ Hex Bolt		1/4 to 1	A	60 ksi min	ASTM A307 / ASME B18.2.1





# HEX NUTS

<b>Metric</b>		<b>Size</b>	<b>Property Class</b>	<b>Standard</b>
■ Hex Nut		M6 to M80	8 & 10	ISO 4032
■ Nylock Nut		M6 to M20 (Gr. 8) M10 to M24 (Gr. 10)	8 & 10	DIN 982
■ Nylock Nut		M6 to M20 (Gr. 8) M10 to M24 (Gr. 10)	8 & 10	DIN 985
■ Hex Weld Nut		M6 to M12	8	DIN 929
■ Hex Lock Nut		M3 to M64		DIN 439, A563

<b>Inch</b>		<b>Size</b>	<b>Grade</b>	<b>Standard</b>
■ Hex Nut		1/4 to 2	8	ASME B18.2.2
■ Hex Nut		1/4 to 2	5	ASME B18.2.2
■ Nylock Nut		#8, #10 1/4 to 3/4	2	ASME B18.16.6
■ Hex Serrated Flange Nut		1/4 to 3/4	-	ASME B18.16.4
■ Hex Coupling Nut		1/4 to 3/4	Hardness Rockwell B68 - C32	ASME B18.2.2





# WASHERS

Metric		Size	Hardness	Standard
■ Square Section Spring Washer		3mm to 39mm	HV 430 to 530	DIN 7980
■ Flat Section Spring Washer		3mm to 39mm	HV 430 to 530	DIN 127 B
■ Flat Washer		3mm to 100mm	HV 100 to 300	DIN125
■ Hardened Steel Washer		12mm to 56mm	Rockwell 26 to 45 (HDG) Rockwell 38 to 45 (Coated)	ASTM F436M

Inch		Size	Tensile Strength	Standard
■ USS Plain Washer		1/4 to 1 1/2	HRC 38-45	ASME B18.21.1-A
■ SAE Plain Washer		1/4 to 2	HRC 38-45 (Coated) HRC 26-45 (HDG)	ASME B18.21.1-A
■ Spring-Lock Washer		1/4 to 1 1/2	HRC 38-46	ASME B18.21.1
■ Hardened Washer		1/4 to 1 3/8	HRC 38-45 (Coated) HRC 26-45 (HDG)	ASTM F436



# SOCKET SCREWS

Metric	Image	Size	Class	EQUIVALENT STANDARDS		
				Dimensional ASME	ISO	Material ASTM
■ Socket Head Cap Screw		M1.6 to M64	12.9	B18.3.1M	4762	A574M
■ Socket Low Head Cap Screw		M4 to M20	10.9			
■ Socket Head Shoulder Screw		M6 to M24	12.9	B18.3.3M		-
■ Countersunk Socket Head Screw		M3 to M20	12.9	B18.3.5M	10642	F835M
■ Button Head Socket Screw		M3 to M12	12.9	B18.3.4M	7380	F835M
■ Flange Button Head Socket Screw		M3 to M10	12.9			F835M
■ Socket set screws		M3 to M20	45H	B18.3.6M	4029	F912M
■ Knurled Cup Point						
■ Flat Point		M6 to M12	45H	B18.3.6M	4026	F912M
■ Dog Point (Dog/Half Dog)		M3 to M20	45H	B18.3.6M	4028	F912M
■ Cone Point		M3 to M12	45H	B18.3.6M	4027	F912M
■ Plain Cup Point		M3 to M20	45H	B18.3.6M	4029	F912M







## PINS

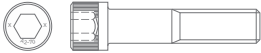
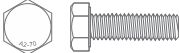








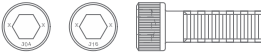



Metric		Size	Hardness	Standard
■ Dowel Pin		2mm to 16mm	HRC 50-58 (core)	
■ Sel-lok Pin		1.5mm to 12mm	HV 440 to 560	ISO 8752
Inch		Size	Hardness	Standard
■ Dowel Pin		1/8 to 1	HRC 50-58 (core)	
■ Sel-lok Pin		1/16 to 1/2		ASME B18.8.2
■ Pull-out Dowel Pin		1/8 to 1	HRC 60 min (surface)	

## WRENCHES and TOOLS

Metric / Inch		Size	Hardness	Standard
■ Hexagon Wrench - Metric (long & short arm)		0.71mm to 32mm		ISO 2936
■ Hexagon Wrench - Inch (long, 6" & short arm)		1/16 to 1		BS 2470, ASME B18.3
■ Hex Driver - Metric		1.5mm to 5.0mm	HRC 40-43	

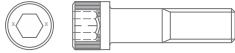

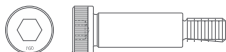

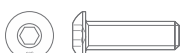







# STAINLESS STEEL













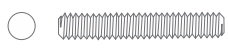
Metric		Size	Property Class	Standards
■ Socket Head Cap Screw		M3 to M30	A2-70/80, A4-70/80	DIN 912 / ISO 4762
■ Hex Head Screw (Full Thread)		M3 to M30	A2-70/80, A4-70/80	DIN 933 / ISO 4017
■ Hex Head Bolt (Partial Thread)		M4 to M30	A2-70/80, A4-70/80	DIN 931 / ISO 4014
■ Hex Nut		M3 to M30	A2-70/80, A4-70/80	DIN 934 / ISO 4032
■ Non Pre-Load Structural Bolt		M12 to M36	A2-50, A4-50, A2-70, A4-70, A2-80, A4-80	BS EN 15048-1, 2
■ Non Pre-Load Structural Nut		M12 to M36	A2-50, A4-50, A2-70, A4-70, A2-80, A4-80	BS EN 15048-1, 2
■ Plain Washer		M3 to M64	A2, A4	DIN 125 A
■ Flat-section Spring Washer		M3 to M36	A2, A4	DIN 127 B
■ Square-section Spring Washer		M3 to M36	A2, A4	DIN 7980
■ Threaded Rod		M3 to M36	A2-70/80, A4-70/80	DIN 975
Inch		Size	Grade	Standards
■ Socket Head Cap Screw		3/16 to 1	F837B & F837E	ASME B18.3 / F837
■ Hex Head Bolt/Screw		1/4 to 1	F593C, F593D & F593G, F593H	ASME B18.2.1 / ASTM F593
■ 304, 316 Hex Nut		1/4 to 1 1/2	F594C, F594D & F594G, F594H	ASME B18.2.2 / F594
■ Plain Washer		1/4 to 1	304, 316	ANSI B18.21.1





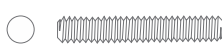



# SOCKET SCREWS

Inch		Size Range	Tensile psi / <i>Hardness</i>	EQUIVALENT STANDARDS				
				Diameter	Thread	Dimensional ANSI/ASME	Material BS	Material ASTM
■	Socket Head Cap Screw		#0 to 2	1936 & 1960 UNC/UNF/BSW	190,000 <1/2 180,000 > 1/2	B18.3	2470	A574
■	Socket Low Head Cap Screw		#8 to 1/2	UNC/UNF	170,000			F835
■	Socket Head Shoulder Screw		1/4 to 2	UNC	<i>HRC 36-43</i>	B18.3	2470	-
■	Countersunk Socket Head Screw		#4 to 1 1/2	UNC/UNF	160,000	B18.3	2470	F835
■	Button Head Socket Screw		#10 to 5/8	UNC/UNF	160,000	B18.3	2470	F835
■	Flange Button Head Socket Screw		#8 to 1/2	UNC/UNF				F835
■	Socket set screws		#4 to 5/8	UNC/UNF	<i>HRC 45-53</i>	B18.3	2470	F912
□	Knurled Cup Point							
□	Plain Cup Point		#0 to 5/8	UNC/UNF	<i>HRC 45-53</i>	B18.3	2470	F912
■	Taper Pressure Plug		3/4 to 7/8	--				



Metric		Size	Property Class	Standards
■ Arc Welding Stud / Shear ConnectorA		M13 to M25	Type SD1,SD2 & Type A, Type B	ISO 13918, AWS D1.1
■ Upset Parallel Threaded Rebar CouplerB		12mm to 50mm		ASTM A615, A706, A775, IS 1786, 16172
■ Parallel Threaded Rebar CouplerB		12mm to 40mm		ASTM A615, A706, A775, IS 1786, 16172
■ Tee Bolt		M8 to M24	Tensile strength: 1250 Mpa Hardness: HRC 40 to 43	
■ Trackshoe Bolt		M16 to M27		
■ Square Nut		M16 to M27		
■ Hex Lock Nut		M3 to M64		DIN 439, A563
■ Hex Slotted & Castle Nut		M6 to M48		DIN 935, 937 A563
■ Anchor Plate		M16 to M24		
■ Shear Nut		M8 to M16		
■ Anti-Theft Bolt		M12 to M16		
■ Carriage Bolt		M5 to M20		DIN 603
■ Threaded Bar		M6 to M64	4.6, 5.8, 6.8, 8.8, 10.9, 12.9	DIN 975 / DIN 976

Inch	Size	Grade	Standards	
■ Tee Bolt		BSW 3/8 to 1	Tensile Strength: 180 ksi	
■ Carriage Bolt		#10 to 1	Grade A	ASTM A307
■ Trackshoe Bolt		5/8 to 1		
■ Square Nut		5/8 to 1		
■ Threaded Bar		1/4 to 2	B7, B7M, B8, B8M, B16, L7, L7M	ASTM A193
■ Threaded Bar		1/4 to 2	Grade A	ASTM A307

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