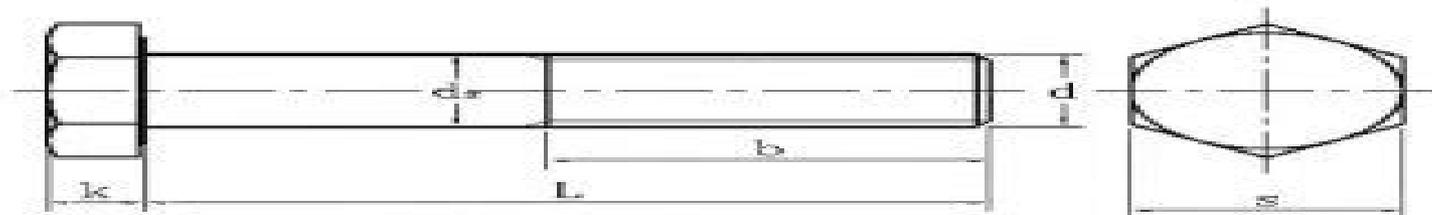


JIS B 1180 - 2004

Standard Hexagon Head Bolts with Half Thread



Unit: mm

d	P	ds	k	S
M6	1	6	4	10
M7	1	7	5	11
M8	1.25/1	8	5.5	13
M10	1.5/1.25	10	7	17
M12	1.75/1.25	12	8	19
M14	2/1.5	14	9	22
M16	2/1.5	16	10	24
M18	2.5/1.5	18	12	27
M20	2.5/1.5	20	13	30
M22	2.5/1.5	22	14	32
M24	3/2	24	15	36
M27	3/2	27	17	41
M30	3.5/2	30	19	46
M33	3.5/2	33	21	50
M36	4/3	36	23	55
M39	4/3	39	25	60
M42	4.5	42	26	65
M45	4.5	45	28	70
M48	5	48	30	75
M52	5	52	33	80
M56	5.5	56	35	85
M60	5.5	60	38	90
M64	6	64	40	95
M68	6	68	43	100
M72	6	72	45	105
M76	6	76	48	110
M80	6	80	50	115

Hex Head Cap Screw Jis B1180 Appendix Full Thread

Hussin A.Rothana



Hex Head Cap Screw Jis B1180 Appendix Full Thread:

Square and Hex Bolts and Screws, Inch Series American National Standards Institute,1992 **Fastener Part Standard**
- Cap Screws, Hex, Heavy Hex and Heavy Hex Structural Bolts, and Hex Nuts (Inch Dimensioned) Ship Systems -
Fasteners Committee,2016 This SAE Part Standard covers selected inch screws bolts structural bolts and nuts manufactured in accordance with ASTM International and SAE fastener standards Appendix A covers bolt blanks to manufacture fitted bolts of specific materials This document covers fastener materials often used in ship systems and equipment but its use may be applied wherever fasteners of the covered materials are used This document permits the fasteners to be identified and ordered by a part identification number PIN as defined in this document Title Clarified title that heavy hex and structural bolts are covered herein but their preference is limited Section 1 Added caution statement about hazardous materials Section 2 Added several new referenced standards Section 3 Added Definitions is new Figure 1 Field 3 deleted Designator 9 Field 4 added Hex Flange Screws and Heavy Hex Bolts Field 5 added nominal size designators for socket head cap screws less than 1 4 inch nominal diameter Field 7 Deleted Designators A G with H or M P V W X and Y Added Designators AH F N NA NC ZA and ZC Table 1 Identified coverage of zinc coated ASTM A193 fasteners Corrected referenced yield strength values for ASTM A354 Grade BD To be in accordance with ASTM A307 corrected that Grade A is preferred to be Hex Bolts not Hex Cap Screws ASTM F468 added Aluminum Alloys and Titanium Alloy 23 Added Socket Button Head Cap Screw configurations for ASTM F835 and ASTM F879 Added Hex Flange Screws for SAE J429 Revised coatings finishes from Recommended to Cited by Fastener Standard but this change has no effect on users choices Figure 2 Field 4 added Hex Flange and Large Hex Flange Nuts Field 7 deleted Designators A G with H or M P V W and Y Added Designators AH F N NA NC S ZA and ZC Table 2 ASTM A194 identified marking for zinc coated nuts and hex slotted nuts in Note ASTM A563 added Hex Flange and Large Hex Flange Nuts ASTM F467 added Heavy Hex nuts Aluminum Alloys and Titanium Alloy 23 ASTM F594 added Hex Heavy Hex Hex Flange and Large Hex Flange Nuts Revised coatings finishes from Recommended to Cited by Fastener Standard but this change has no effect on user choices Table 3 Adjusted length increments for longer lengths Section 4 Added specific thread fits for socket type cap screws Revised coating notes due to coatings changes Designator F in accordance with ISO 10683 is added as an option to allow multiple manufacturers to supply that coating type Hexavalent chromium has been prohibited due to environmental and regulatory concerns Replaced canceled SAE J121 with superseding ASTM F2328 for decarburization to reflect same change in SAE J429 Revised Quality Assurance requirements Addressed flat countersunk head cap screw wedge tensile testing Added max hardness to NiCuAl Section 5 Added selection guidance for heavy hex screws heavy hex nuts Nickel Alloy 686 and Titanium Ti 5 1 1 1 Table A1 Added 2 1 4 inch bolt blank Editorial changes have been made throughout Hexagon-head Cap Screws (case Quantity and Gross Weight) ,1956 **American Standard**
Hexagon Head Cap Screws, Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws

American Standards Association. Sectional Committee B18 on Dimensional Standardization of Bolts, Nuts, Rivets, Screws, and Similar Fasteners,1965 Hexagon Socket Head Cap Screws British Standards Institute Staff,2004-03-10 Screws bolts Threaded fasteners Fasteners Socket head fasteners Hexagonal head fasteners Cap head fasteners Heads fasteners Thread pitch Threads Grades quality Dimensional tolerances Dimensions **Standard Specification for Nonferrous Bolts, Hex Cap Screws, Socket Head Cap Screws, and Studs for General Use** , Hexagon Socket Head Cap Screws ,1997

Hexagon Socket Head Cap Screws with Metric Fine Pitch Thread British Standards Institute Staff,2004-03-01 Screws bolts Threaded fasteners Fasteners Socket head fasteners Hexagonal head fasteners Cap head fasteners Heads fasteners Thread pitch Fine threads Threads Grades quality Dimensional tolerances Dimensions *Hexagon Head Cap Screws, Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws. Sponsors* American Standards Association. Sectional Bommittee B18 on Dimensional Standardization of Bolts, Nuts, Rivets, Screws, and Similar Fasteners,1956 *American Standard Hexagon Head Cap Screws, Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws* American Standards Association,1956 Socket Set Screws and Socket Head Cap Screws ,1936 Specification for Hexagon Socket Head Cap Screws. Metric Series British Standards Institute Staff,1982-12-31 Screws bolts External thread fasteners Hexagonal head fasteners Socket head fasteners Cap head fasteners Threaded fasteners Threaded components MJ threads Fasteners Aircraft components Air transport engineering ISO metric threads Dimensions Designations Protective coatings Marking Alloy steels Chromium steels Molybdenum steels **AS/NZS 1420:1996** Standards Association of Australia,Standards Association of Australia. Joint Technical Committee ME/29, Fasteners,1996 *Hexalobular Socket Head Cap Screws* British Standards Institute Staff,1911-04-30 Screws bolts Fasteners Threaded fasteners External thread fasteners Hexagonal shape Socket head fasteners Cap head fasteners Dimensions Dimensional tolerances Diameter Length Thread pitch Threads Designations **Hexagon Socket Head Cap Screws** British Standards Institution,1998 **Hexagon Socket Button Head Cap Screws (metric Series)**. American National Standards Institute,American Society of Mechanical Engineers,1986 Hexagon Socket Button Head Cap Screws Metric Series Society of Automotive Engineers,American Society of Mechanical Engineers,American National Standards Institute,1979 *Socket Head Cap Screws and Socket Set Screws* American National Standards Institute,American Society of Mechanical Engineers,1947 **Square and Hex Bolts and Screws** American Society of Mechanical Engineers,Society of Automotive Engineers,American Standards Association,1965 *American National Standard Hexagon Socket Button Head Cap Screws (metric Series)* American National Standards Institute,1979

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web surveying lab activity 3 determining contour lines for grassed waterway 1 using a laser level determine the elevations of 16 points 2 use one page of the field notes please indicate who did what please rotate tasks 3 after determining the elevations of the 16 points draw on your map the contour lines and indicate the drainage direction

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web example survey field notes the type of survey will dictate the necessary information to measure and record the following figures provide field note examples of three common survey types differential levelling using an automatic level elevation determination traverse survey angles and coordinate determination

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web 1 set the level at a convenient point 2 perform the temporary adjustments 3 hold the staff vertically over the benchmark observe the staff reading and write in the b s column of the field book 4 hold the staff at other points and note the staff reading in the i s column of the field book 5

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