

		CORPORATE STANDARD		AA7111122	
				Rev No.08	
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BOLTS, HEXAGON HEAD, PRODUCT GRADE 'A' COARSE PITCH, STEEL PROPERTY CLASS 8.8 (M3 - M16)					
1.0 DESIGNATION: A product Gr.A, hexagon head, steel bolt of nominal diameter 10 mm, length 60 mm, coarse pitch and conforming to property class 8.8 shall be designated as:					
1.1 On Drawings: i) Material specification column : AA7111122 ii) Description Column : BOLT HEX A M10 X 60 – 8.8					
1.2 On Indents: Bolt Hex A M10 X 60 – 8.8: AA7111122					
1.3 For issuing enquiries and on purchase orders: While issuing enquiries and purchase orders delete BHEL standard number from above description and add the information given under clause 2.0					
2.0 COMPLIANCE WITH STANDARDS:					
2.1 Dimensions, Tolerance & General Requirements: As per IS:1364, Part 1–2002					
2.2 Mechanical Properties: To conform to property class 8.8, as specified in Table–3 of IS:1367, Part 3 Permissible hardness 238-350 HB for sizes M6-M10					
2.3 Threads: Pitch-Coarse to IS:4218, Part 2 Tolerance quality – Medium Tolerance class – 6g					
2.4 Identification Marking: As stated in Clause 9 of IS:1367, Part 3					
2.5 Surface Discontinuity: As per IS:1367, Part 9					
2.6 Finish: Planted as specified in BHEL order.					
Revisions: Clause No. 31.4.0 of MOM of MRC-F			APPROVED: INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC(F)		
Rev No.08	Amd No.	Reaffirmed	Prepared	Issued	Dt. of 1 st Issue
Dt:02-07-2013	Dt:	Year:2019	HEEP, Haridwar	Corp.R&D	January 1977

CORPORATE STANDARD**3.0 NOTE:**

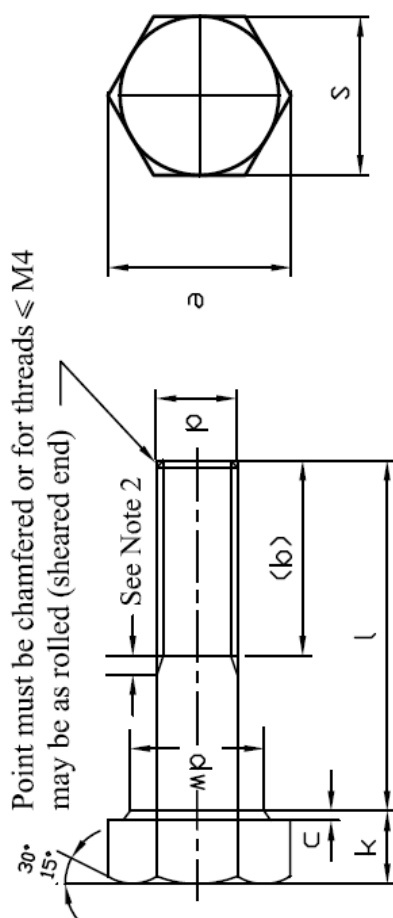
- 3.1** Length and diameter combination (refer Table-1 on page 3 of 3) between the bold lines should only be use
- 3.2** For screw threads, general (Metric) refer to BHEL standard AA0231800
- 3.3** For tolerance grade, position and class refer to BHEL standard AA0230201
- 3.4** Bolts to this standard would be un-plated, divisions wishing to have plated bolts would have to get them plated.
- 3.5** Weights given in this standard are for general reference only and are not meant for commercial transaction.
- 3.6** For product group Gr:A, hexagon head, steel bolts, property class 8.8 (M20 - M24) refer BHEL standard AA7111124
- 3.7** When fasteners are to be tested with in BHEL, the sampling and acceptance plan shall be as per IS:1367, part 17

4.0 REFERRED STANDARDS (Latest publications including amendment):

- 1) AA0231800 2) AA0230201 3) AA0231850
 4) IS:1367, Part 3, 9 & 17 5) AA7111124 6) IS:4218, Part2

EXPLANATORY NOTE

- In Clause 2.2, Year of the IS:1367, Part 3 has been removed.
- In Table-1, the sizes, sub-codes and their weights have been corrected in line with CMCC of fasteners for mainly M12 and M16
- In Clause 4.0, the Standard No.AA0231850 has been added at Sl. No.7



- 1) Corporate sub codes are shown in the table.
- 2) For thread runout refer AA0231850
- 3) Weights have been shown in kg per 1000Nos
- 4) Symbol Δ denotes the non-preferred size.

All dimensions are in 'mm'

TABLE - 1

[illegible]