



# CORPORATE STANDARD

AA7123123

Rev. No. 07

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## SCREWS, CAP, HEXAGON SOCKET HEAD, PRODUCT GR. A, COARSE PITCH, STEEL, PROPERTY CLASS 12.9 (M3 - M36)

### 1 DESIGNATION

A hexagon socket head, cap screw of nominal size M10, length 30mm, coarse pitch, product grade A and of property class 12.9 shall be designated as:

#### 1.1 On drawings

- i) Material specification column: AA7123123
- ii) Description column: SCRU CAP SOCK A M10 X 30 – 12.9

#### 1.2 On indents

Screw Hex socket head, cap A M10 X 30 – 12.9: AA7123123

#### 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.

### 2 COMPLIANCE WITH STANDARDS

#### 2.1 Dimensions, Tolerances & General Requirements

As per IS: 2269 - 2006

#### 2.2 Mechanical properties

To conform to property class 12.9, as specified in table 3 of IS: 1367, Part 3

#### 2.3 Threads

Pitch-coarse to IS: 4218, Part 2  
Tolerance quality: Medium  
Tolerance class: 5g - 6g

#### 2.4 Identification Marking

As stated in clause 9 of IS: 1367, Part 3 (except for sizes up to M10)

#### 2.5 Surface Discontinuity

As per IS: 1367, Part 9

#### 2.6 Finish

Plated as specified in BHEL order.

Revisions: As per Clause. 29.1.2 of 29th MOM of WG-F

#### APPROVED:

INTERPLANT MATERIAL RATIONALISATION COMMITTEE – MRC (F)

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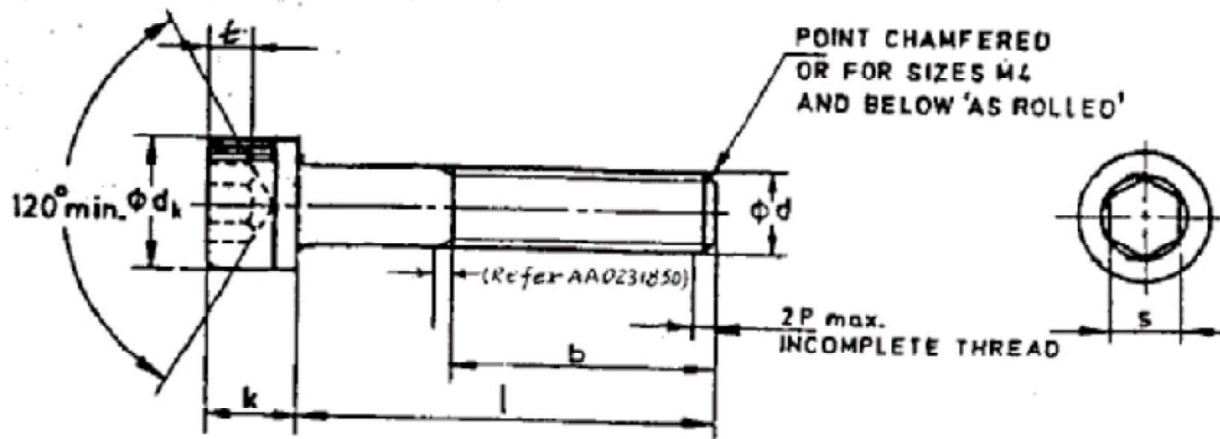
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**CORPORATE STANDARD****3 NOTE**

- 3.1** Length and diameter combination (refer Table 1) between the bold lines should only be used.
- 3.2** Sizes to the left side of the dotted lines are threaded to the head within 3P.
- 3.3** For screw threads, general (Metric) refer to BHEL standard AA0231800
- 3.4** For tolerance grade, position and class refer to BHEL standard AA0230201
- 3.5** Screws to this standard would be unplated, divisions wishing to have plated screws would have to get them plated.
- 3.6** Weights given in this standard are for general reference only and are not meant for commercial transactions.
- 3.7** The screws to this standard can also be supplied with diamond / straight knurling on the external side of head.
- 3.8** When fasteners are to be tested with in BHEL, the sampling and acceptance plan shall be as per IS:1367, Part 17

**4 REFERRED STANDARDS (Latest publications including amendment)**

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

**FIG. 1**

