

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

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भारतीय मानक मसौदा

सामान्य उठाने के प्रयोजनों के लिए गढ़ी गई — डी बेड़ियाँ और धनुष बेड़ियाँ

(आईएसओ 2415 का अधिग्रहण)

Draft Indian Standard

**FORGED SHACKLES FOR GENERAL LIFTING PURPOSES — DEE SHACKLES
AND BOW SHACKLES**

(Adoption of ISO 2415)

ICS 53.020.30

Cranes, Lifting Chains and Related Equipment
Sectional Committee, MED 14

Last date for receipt of
comments is 10 March 2024

NATIONAL FOREWORD

(Adoption clauses to be added later)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The general characteristics of forged dee and bow shackles in a range of sizes having working load limits from 0.5 t to 120 t and in grades 6, 8 and 10, and presents their performance and preferred dimensions necessary for their interchangeability and compatibility with other components for use in the temperature range of - 20 °C to 200 °C are covered in this document.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 148-1, Metallic materials — Charpy pendulum impact test — Part 1: Test method	IS 1757 (Part 1) : 2020/ ISO 148-1 : 2016, Metallic materials — Charpy pendulum impact test Part 1 Test method (<i>fourth revision</i>)	Identical
ISO 261, ISO general purpose metric screw threads — General plan	ISO 4218 (Part 2) : 2001/ ISO 261 : 1998, ISO general purpose metric screw threads: Part 2 General plan (<i>second revision</i>)	Identical

The technical committee has reviewed the provision of the following International Standard referred in this adopted standard and has decided that it is acceptable for use in conjunction with this standard:

<i>International Standard</i>	<i>Title</i>
ISO 263	ISO inch screw threads — General plan and selection for screws, bolts and nuts — Diameter range 0,06 to 6 in
ISO 3452-1	Non-destructive testing — Penetrant testing — Part 1: General principles
ISO 9934-1	Non-destructive testing — Magnetic particle testing — Part 1: General principles
ISO 7500-1	Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system
EN 10228-1	Non-destructive testing of steel forgings - Part 1: Magnetic particle inspection
EN 10228-2	Non-destructive testing of steel forgings - Part 2: Penetrant testing

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE — The technical content of the document has not been enclosed as these are identical with the corresponding ISO standard. For details, please refer the corresponding **ISO 2415 : 2022** or kindly contact:

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