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भारतीय मानक मसौदा  
**मिओमेक्टमी क्लैम्प, बोनीज़ पैटर्न — विशिष्टि**  
*(IS 7432 का पहला पुनरीक्षण)*

*Draft Indian Standard*  
**Myomectomy Clamp, Bonney's Pattern — Specification**  
*(First Revision of IS 7432)*

ICS 11.040.30

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Obstetric and Gynaecological Instruments  
and Appliances Sectional Committee, MHD 03

Last date for comments: **10 August 2025**

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**FOREWORD**

*(Formal clauses will be added later)*

This standard was first published in 1974. The first revision has been brought out to align the standard with the latest style and format of Indian Standards. This revision incorporates Amendment No.1 issued in 1980.

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 same as that of the specified value in this standard.

## 1 SCOPE

This standard specifies the general requirements, dimensions, and tests for Bonney's pattern myomectomy clamp used in obstetrics.

## 2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute the provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of these standards.

<i>IS No.</i>	<i>Title</i>
IS 1501 (Part 1): 2025/ ISO 6507-1: 2023	Metallic Materials — Vickers Hardness Test Part 1 Test Method ( <i>sixth revision</i> )
IS 3642 (Part 1): 1990	Surgical instruments – Specification Part 1 Non-cutting, articulated instruments ( <i>second revision</i> )
IS 6911: 2017	Stainless steel plate, sheet and strip – Specification ( <i>second revision</i> )
IS 7531: 1990	Surgical instruments – Corrosion resistance of stainless-steel surgical instruments – Methods of tests ( <i>first revision</i> )

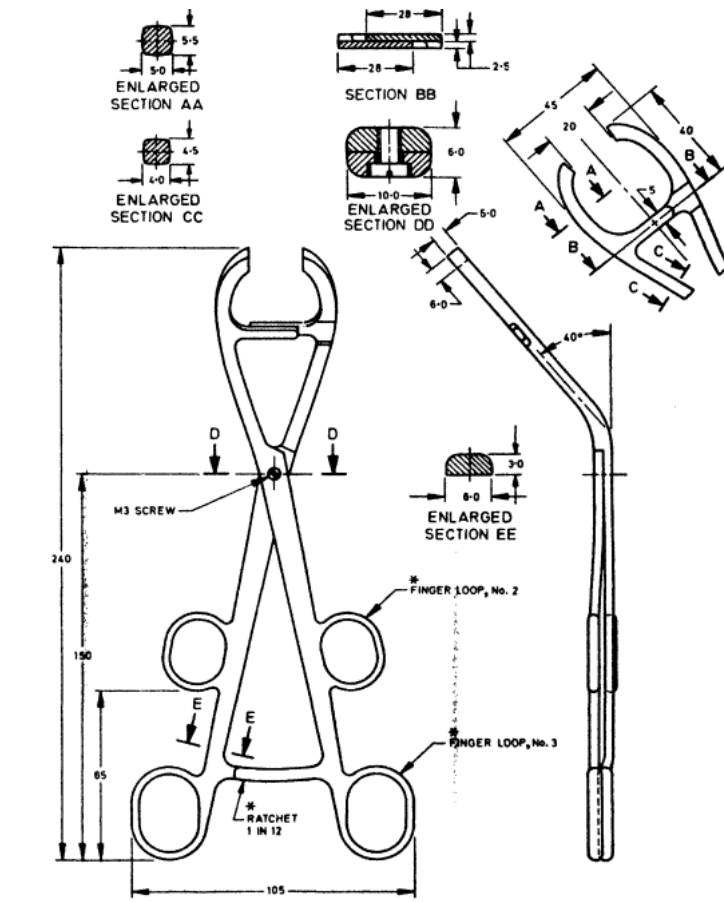
## 3 MATERIAL

**3.1** The material shall be stainless steel conforming to designation X20Cr13 or X30Cr13 of IS 6911.

**3.2** The screw shall also be of stainless steel of the same designation as above.

## 4 SHAPE AND DIMENSIONS

**4.1** The shape & dimensions shall be as shown in Fig. 1.



\*See IS 3642 (Part 1)

All dimensions in millimetres.

FIG. 1 CLAMP, MYOMECTOMY, BONNEY'S PATTERN

## 4.2 Joints

The joint screw shall be as per 6.3 of IS 3642 (Part 1).

## 4.3 Finger Loops

Finger loops shall be of No. 2 and 3 sizes as shown in Fig. 1 and conforming to 6.6 of IS 3642 (Part 1).

## 4.4 Ratchet

The ratchet teeth shall conform to 6.4 of IS 3642 (Part 1) with combination of 1 in 2. When first tooth of ratchet is engaged, there shall be a gap of 20 mm between the jaws of the clamp.

## 5 WORKMANSHIP AND FINISH

5.1 The clamp shall be free from scales, burrs, pits and other defects.

5.2 The clamp shall be symmetrical and well balanced.

**5.3** All edges of the clamp shall be smoothly rounded off.

**5.4** The arms of clamp shall move easily and freely at the joint but there shall be no undue play at the joint.

**5.5** The clamp shall be polished bright and passivated.

## **6 Heat Treatment**

The clamps shall be hardened and tempered to give a hardness of 380 to 420 HV when tested in accordance with IS 1501 (Part 1).

## **7 Tests**

### **7.1 Flexibility**

7.1.1 The distal end of the jaws shall be made to close on a piece of vulcanized rubber 10 mm thick and the last tooth of the ratchet engaged. On opening, the clamp shall show no sign of damage.

7.1.2 A force of moderate degree shall be applied to each shank at right angle to the long axis and in a plane at right angle to the finger loops. The test shall be repeated at several points along the shanks. On completion of this test the shanks shall not acquire a new permanent set.

### **7.2 Corrosion Resistance**

The sample shall be tested in accordance with IS 7531. The sample shall show no sign of corrosion after the test.

## **8 MARKING**

**8.1** The product shall be legibly and indelibly marked with the following:

- a. Manufacturer's name, initials or registered trade-mark;
- b. Country of manufacture; and
- c. The words 'Stainless Steel' or the letters 'SS'

### **8.2 BIS Certification Marking**

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed there under, and the product(s) may be marked with the Standard Mark.

## **9 PACKING**

The clamp shall be wrapped in moisture-proof paper or packed in polyethylene bags avoiding contact with one another.