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भारतीय मानक मसौदा

शेवेलियर जैक्सन पैटर्न वोकल नोड्यूल संदंश —
विशिष्टि

(IS 8327 का पहला पुनरीक्षण)

Draft Indian Standard

**Chevalier Jackson's Pattern Vocal Nodule Forceps —
Specification**

(First Revision of IS 8327)

[ICS 11.040.30]

Ear, Nose, Throat and Head & Neck Surgery
(ENT - H&N) Instruments Sectional Committee,
MHD 04

Last date for comments:
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FOREWORD

(Formal clause will be added later)

This standard was originally published in 1977. The first revision of this standard has been brought out to align it with the recent developments and to bring the standard in line with the latest style and format of Indian Standards.

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.

Indian Standard

Chevalier Jackson's Pattern Vocal Nodule Forceps — Specification

1 SCOPE

This standard covers dimensional and other requirements for Chevalier Jackson's pattern vocal nodule forceps of sizes 25,30, 35,40, 45,50 and 55 cm used in ENT surgery.

2 REFERENCES

The standards given below contain provisions which, through reference in this text, constitute 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 3642 (Part 1) : 1990	Surgical instruments — Specification: Part 1 non - Cutting, articulated instruments (<i>Second Revision</i>)
IS 6603 : 2024	Stainless Steel Semi-Finished Products, Bars, Wire Rods and Bright Bars — 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 SHAPE AND DIMENSIONS

3.1 The shape and dimensions shall be as shown in **Fig. 1**.

3.2 A deviation of ± 2.5 percent shall be allowed on all dimensions.

3.3 A deviation of $\pm 2^\circ$ shall be allowed for angular dimensions.

4 MATERIAL

Stainless steel conforming to Designation X40Cr13 of IS 6603.

5 WORKMANSHIP AND FINISH

5.1 The forceps shall be free from scale, burrs, cracks, pits, tool marks and other surface defects.

5.2 All edges shall be smoothly rounded off except the cutting edge which shall be as shown in **Fig. 1**.

5.3 The forceps shall operate smoothly and the upper jaw shall fit snugly into the corresponding grooves in the lower jaw.

6. HEAT TREATMENT

The forceps shall be uniformly hardened and tempered to give a hardness of 540 to 600 *HV*.

7 TESTS

7.1 The forceps shall be able to pick up at the tips fine hairs or bits of threads and fibres strewn on a polished surface, for example, a glass surface.

7.2 The jaws shall be made to bite piece of firm vulcanized rubber sheet about 3'00 mm thick and the finger loops closed as fully as possible. On release the forceps shall not show any sign of damage or the upper jaw shall not become loose at the hinge.

7.3 A force of moderate degree shall be applied by the fingers to the shank attempting to bend on the width. This shall be repeated at several points along the shank. The test shall, then, be repeated in a plane at right angles to the first. On completion of the test, the shank shall not have acquired any permanent set.

7.4 Corrosion Resistance - The forceps shall be tested in accordance with IS 7531. There shall not be any signs of corrosion and the arms shall move freely at the joint at the end of the test.

7.5 The forceps shall be made to punch a 3 mm thick card-board sheet. The forceps shall do this easily and clearly. This shall be repeated 10 times. During or on completion of the test, the cutting edges of the forceps shall show no sign of damage.

8 MARKING

8.1 The forceps shall be legibly and indelibly marked with manufacturer's name, initials or registered trade-mark, and the country of manufacture.

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 thereunder, and the product(s) may be marked with the Standard Mark.

9 PACKING

The forceps shall be wrapped in moisture-proof paper or packed in polyethylene bag. Each forceps shall then be packed in individual cartons. The forceps may also be packed as agreed to between the purchaser and the supplier.