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भारतीय मानक मसौदा
जेनकिंस पैटर्न मास्टॉयड गॉज – विशिष्टि
(IS 5732 का पहला पुनरीक्षण)

Draft Indian Standard
Jenkins' Pattern Mastoid Gouge – Specification
(First Revision of IS 5732)

[ICS 11.040.30]

Ear, Nose and Throat Surgery Instruments
Sectional Committee, MHD 04

Last date for comments: 21 October, 2023

FOREWORD

(Formal clauses will be added later)

This standard was originally published in 1970. The first revision of this standard has been brought out to align the standard with the latest style and format of Indian Standards. In this revision, the grade designation of stainless steel 316 has been included in the material clause and a test for hardness has been included.

This revision incorporates all the amendments issued till date.

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 requirements for Mastoid Gouge (Jenkins' Pattern) 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.

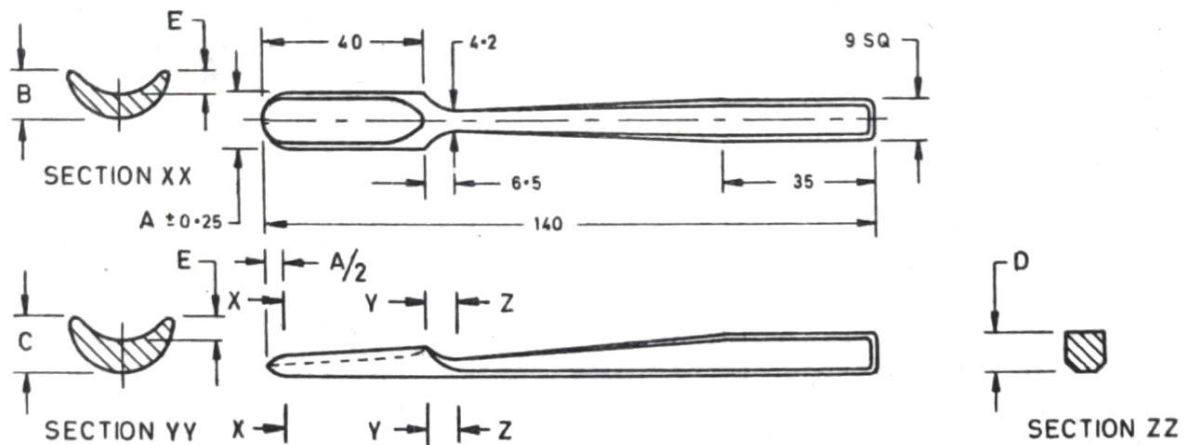
IS No.	Title
IS 1501 (Part 1): 2020/ ISO 6507-1: 2018	Metallic Materials – Vickers Hardness Test Part 1 Test Method
IS 6911: 2017	Stainless steel plate, sheet and strip — Specification (<i>second revision</i>)
IS 7531: 1990	Surgical instruments – corrosion resistance of stainless steel surgical instruments – Methods of tests (<i>first revision</i>)

3 MATERIAL

The material shall be stainless steel of grade X 04Cr17Ni12Mo2 (Alloy 316) as per IS 6911.

4 SHAPE AND DIMENSIONS

The shape and dimensions shall be as per Fig. 1.



Size (1)	A (2)	B (3)	C (4)	D (5)	E (6)
6	6	2.5	3.5	3.5	1.2
8	8	3.5	4.5	3.5	1.7
10	10	4.5	5.5	4.5	2.2
12	12	5.5	6.5	4.5	2.7

All dimensions in millimetres
Fig. 1 MASTOID GOUGE (JENKINS' PATTERN)

5 WORKMANSHIP AND FINISH

5.1 All the surfaces shall be smooth and free from pits, cracks, burrs and other surface flaws.

5.2 All the sharp edges, other than the cutting edge, shall be rounded. The cutting edge shall be sharp and even.

5.3 The gouge shall be passivated and polished bright.

6 HEAT TREATMENT

The instrument shall be hardened and tempered to a hardness of 500 to 600 *HV*.

7 TESTS

7.1 Hardness Test

The forceps shall be tested for hardness as specified in **6** in accordance with IS 1501 (Part 1).

7.2 Performance Test

Apply the cutting edge of a gouge to the surface of seasoned teak wood. Scoop the wood with the help of manual pressure. A piece shall be scooped out cleanly and easily. On completion of the test, the cutting edge shall neither chip nor show any sign of damage.

7.3 Corrosion Resistance Test

The instrument shall satisfy the requirements of test for corrosion resistance as specified in IS 7531.

8 MARKING

8.1 Each Gouge shall be marked with the following:

- a) Manufacturer's name, initials or registered trade-mark;
- b) Size of the Gouge; and
- c) The words 'Stainless Steel'.

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

Each Gouge shall be put in a polyethylene bag and then packed in individual cardboard carton, or the packing shall be done as agreed to between the purchaser and the supplier.