

BUREAU OF INDIAN STANDARDS

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भारतीय मानक मसौदा
**फोर्सेप्स, रिड्रेसिंग, वॉल्शैम, राइट, लेफ्ट और स्ट्रेटनिंग के लिए
विशिष्टि**
(IS 4994 का पहला पुनरीक्षण)

Draft Indian Standard
**Specification for Forceps, Redressing, Walsham's, Right, Left and
Straightening**
(IS 4994 का पहला पुनरीक्षण)

[ICS 11.040.30]

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

Last date for comments: **22 July, 2024**

FOREWORD

(Formal clause will be added later)

This standard was originally published in 1969. The First revision of this standard has been brought out to align it with 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***SPECIFICATION FOR FORCEPS, REDRESSING, WALSHAM'S, RIGHT,
LEFT AND STRAIGHTENING****1 SCOPE**

This standard covers the requirements of Walsham's redressing forceps, right, left and straightening.

2 REFERENCES

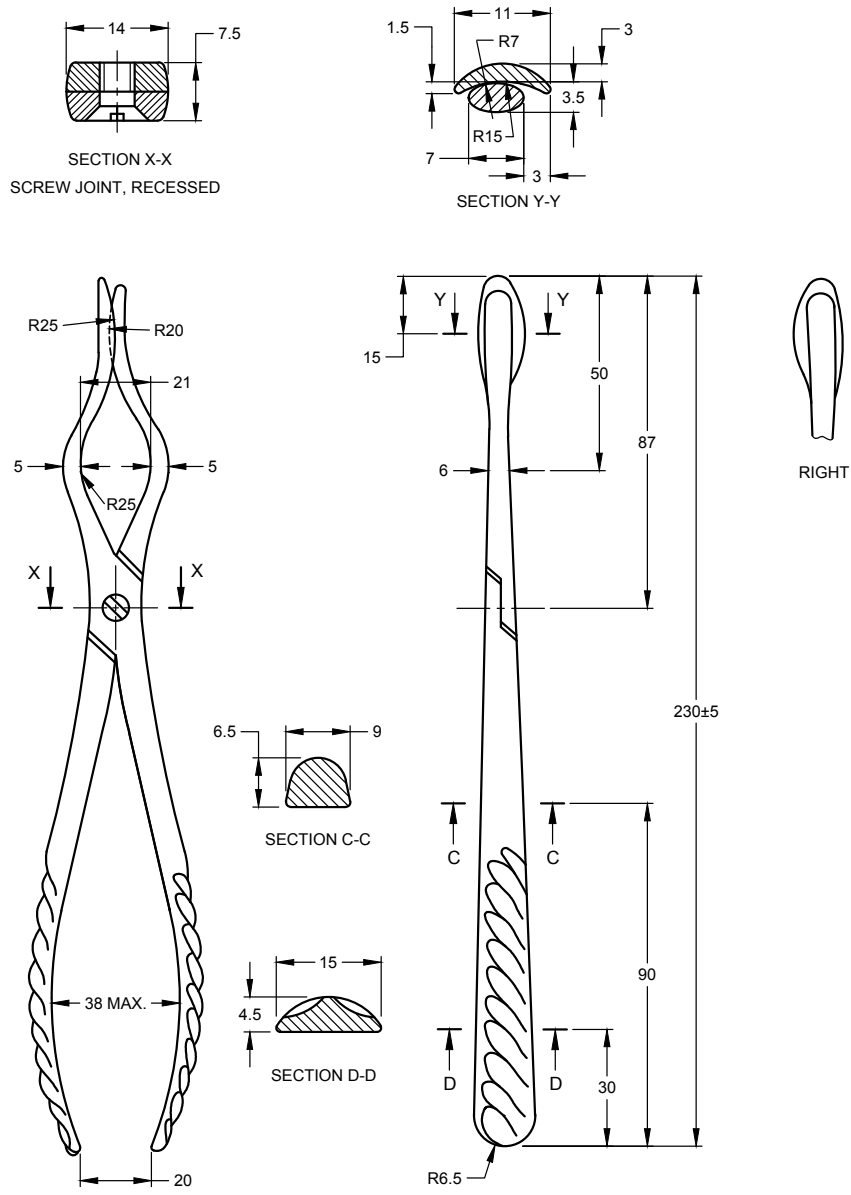
The standards given below contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate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

<i>IS No.</i>	<i>Title</i>
IS 7531: 1990	Surgical instruments - Corrosion resistance of stainless-steel surgical instruments - Methods of tests (First Revision)
IS 3642 (Part 1) :1990	Surgical instruments - Specification: Part 1 non - Cutting, articulated instruments (Second Revision)
IS 1570 (Part 5) : 1985	Schedules for wrought steels: Part 5 stainless and heat - Resisting steels (Second Revision)

3 SHAPE AND DIMENSIONS

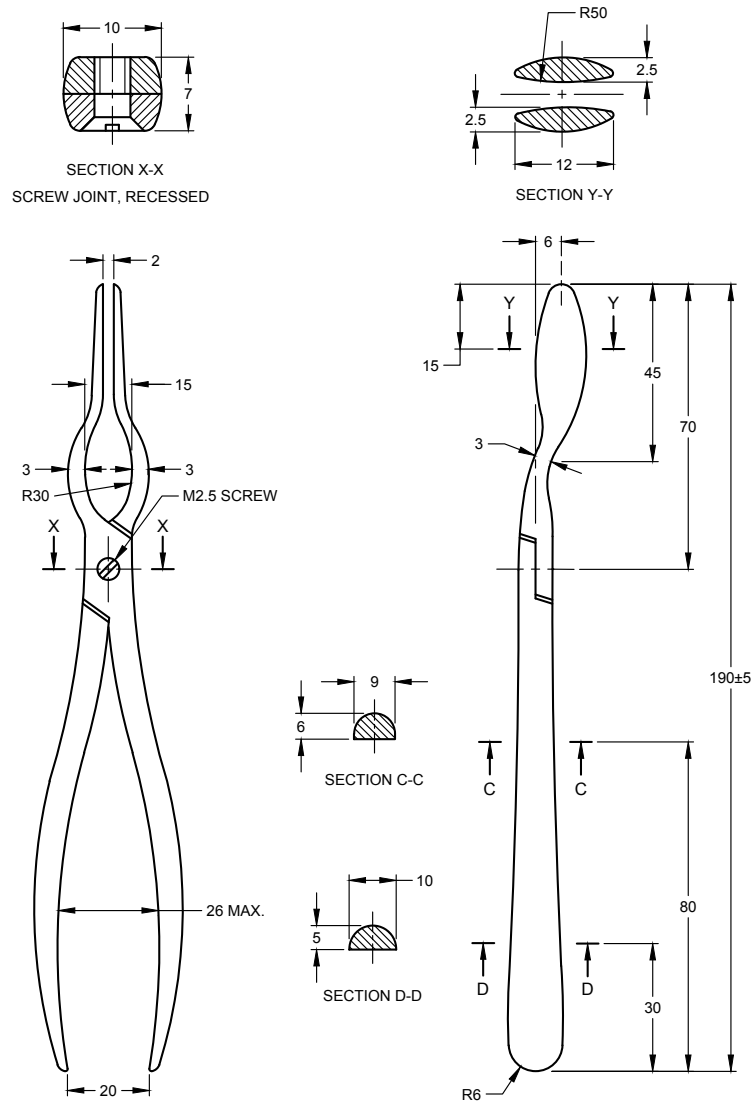
3.1 The forceps shall conform to shapes and dimensions as given in Fig. 1 and 2.

3.2 Joint – The joint of the forceps shall be a recessed screw joint as given in Fig. 1 and 2 or a box joint. The other requirements of the joint shall be the same as prescribed in 6 of Section 2 of IS: 3642(Part 1)



All dimensions in millimetres.

FIG. 1 WALSHAM'S REDRESSING FORCEPS, LEFT AND RIGHT



All dimensions in millimetres.

FIG. 2 WALSHAM'S REDRESSING FORCEPS, STRAIGHTENING

4 MATERIAL

4.1 The forceps shall be made from stainless steel conforming to Designation 30 Cr 13 of IS: 1570(Part 5).

4.2 The screws shall be of stainless-steel conforming to Designation 30 Cr 13 or 20 Cr 18 Ni 2 of IS: 1570 (Part 5).

5 WORKMANSHIP AND FINISH

5.1 The instrument shall be free from cracks, seams, burrs, flaws and other defects. The surface shall be finished smooth and bright. The forceps shall be of a symmetrical and balanced construction and both arms shall match.

6 HEAT TREATMENT

The forceps shall be uniformly hardened and tempered throughout. The hardness shall be 360 to 400 *HV*.

7 TESTS

7.1 Corrosion Resistance Test – The instrument shall satisfy the boiling and autoclaving test as specified in IS: 7531.

8 Marking

Each forcep shall be clearly and indelibly marked with the manufacturer's name, initials or trademark. The word 'SS' shall also be marked on the handle. The forceps shall be marked with the letters 'R', 'L' and 'S' to indicate right, left and straightening forceps.

9 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.

10 PACKING

The forceps shall be packed as agreed to between the purchaser and the supplier or wrapped in a moisture-proof polyethylene bag and then packed in a suitable cardboard box or plastic case. On the package of the product batch Number, Lot Number, and Serial Number shall be mentioned.