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भारतीय मानक मसौदा

ईएनटी सर्जरी उपकरण — कैंची — विशिष्टि

(IS 8840 का पहला पुनरीक्षण)

Draft Indian Standard

ENT Surgery Instruments — Scissors — Specification

(First Revision of IS 8840)

[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 1978. 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

ENT SURGERY INSTRUMENTS — SCISSORS — SPECIFICATION

1 SCOPE

This standard covers dimensional and other requirements for scissors used in microlaryngeal 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.

4 MATERIAL

Stainless steel conforming to designation X40 Cr13 of IS 6603.

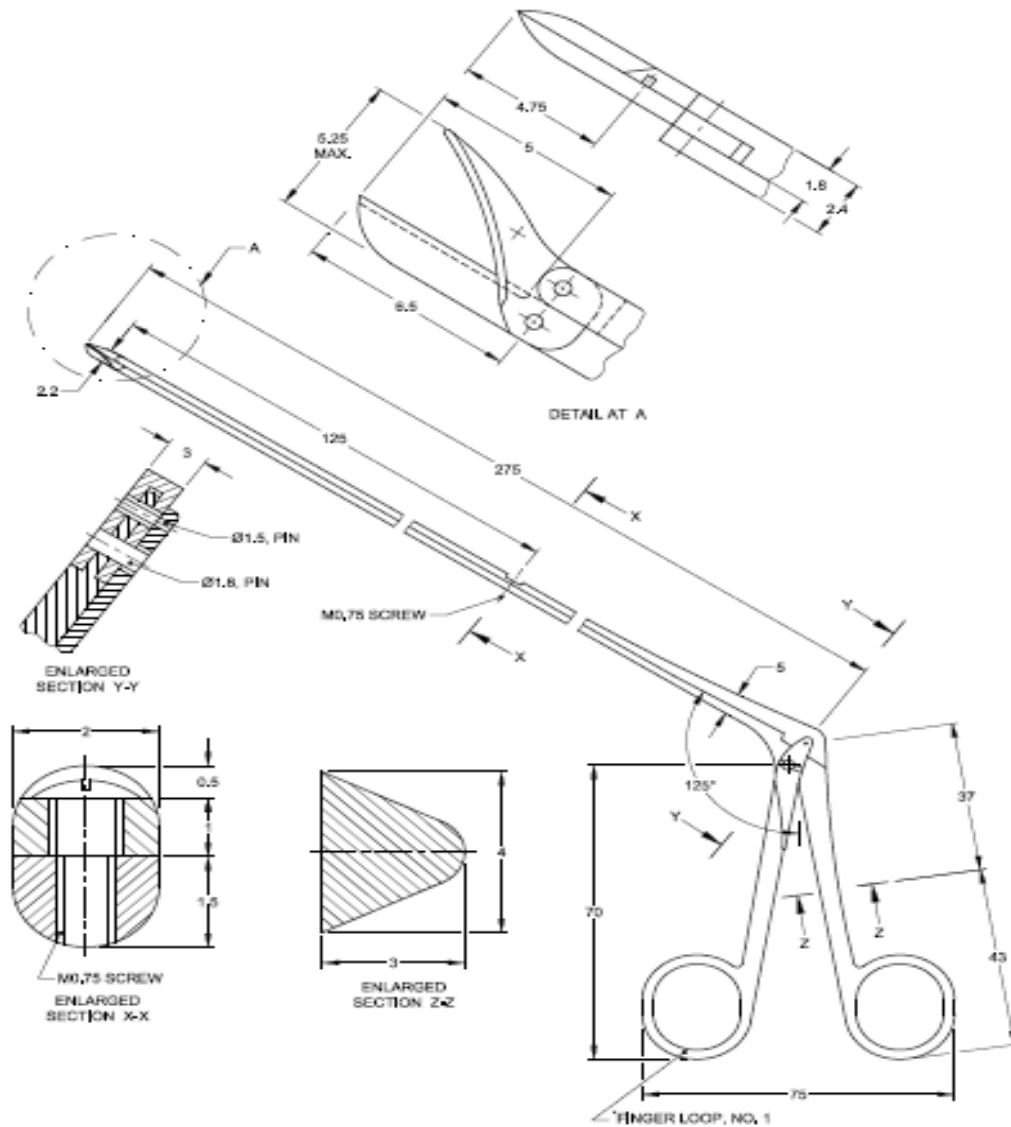
5 WORKMANSHIP AND FINISH

5.1 The scissors shall be symmetrical and well balanced.

5.2 The scissors shall be free from scale, pits, burrs, tool marks and other surface defects.

5.3 The moving blade shall open and close without stiffness and shall have a slight cross-over action to give a continuous pinch. There shall be no play at the joint.

5.4 The scissors shall be dull matt finished and passivated.



*See IS 3652

All dimensions in millimeters.

FIG. 1 SCISSORS MICROLARYNGEAL SURGERY

5.5 All the edges shall be even. The edges shall be rounded except the cutting edges, which shall be sharp and shall not have any feather.

6 HEAT TREATMENT

The scissors shall be hardened and tempered to give a hardness of 540 to 640 *HV*.

7 TESTS

7.1 Performance

The scissors shall cut teased-out cotton wool, fine hairs and latex rubber accurately and clearly from pinch to tip.

7.2 Flexibility Test

The flexibility shall be tested in the following manner.

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

7.2 Corrosion resistance

The scissors shall satisfy the boiling and autoclaving test as in IS 7531.

8 MARKING

8.1 The scissors shall be marked with the following:

- a) Manufacturer's name, initials or recognized trade-mark; and
- b) 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 scissors shall be wrapped in moisture-proof paper or packed in polyethylene bag avoiding contact with one another. They may also be packed as agreed to between the purchaser and the supplier.