

**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा  
**डेंटल क्राउन कैची, सीधी और घुमावदार — विशिष्टि**  
*[IS 5212 का पहला पुनरीक्षण]*

*Draft Indian Standard*  
**Dental Crown Scissors, Straight and Curved — Specification**  
*[First Revision of IS 5212]*

**[ICS 11.060.20]**

Dentistry Sectional Committee, MHD 08

Last date for comments:

**06 September 2024**

**FOREWORD**

*(Formal clause will be added later)*

This standard was originally published in 1969 as 'Specification for Scissors, Crown, Dental, Straight and Curved on Flat'. This revision aligns the cross references to the latest standards, incorporates revised designations for steel and revised certification clause.

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

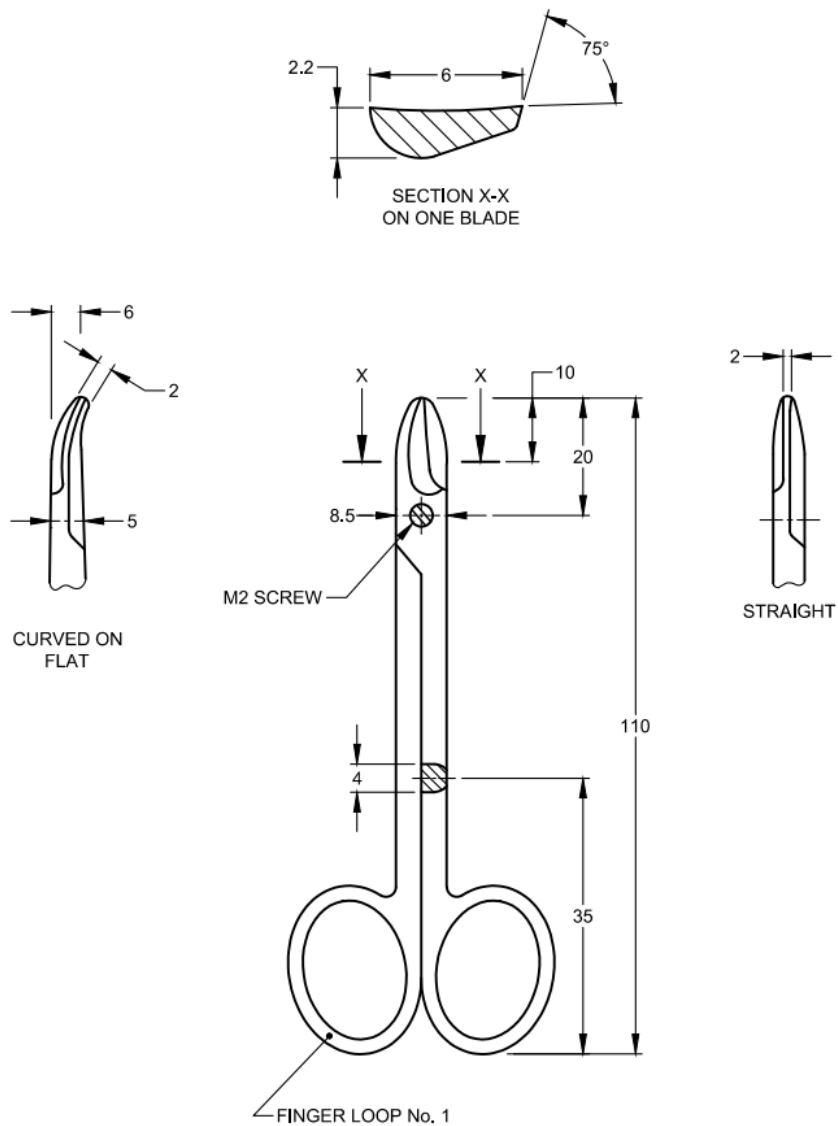
This standard specifies dimensions and requirements of dental crown scissors, straight and curved on flat.

## 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 4218 (Part 1) : 2001/ISO 68-1 : 1998	ISO general purpose metric screw threads Part 1 Basic profile ( <i>second revision</i> )
IS 3642 (Part 1): 1990	Surgical instruments – Specification Part 1 non - Cutting, articulated instruments ( <i>Second Revision</i> )
IS 1570 (Part 6) : 1996	Schedules for wrought steels Part 6 carbon and alloy tool steels ( <i>First Revision</i> )
IS 1068 : 1993	Electroplated coatings of nickel plus chromium and copper plus nickel plus chromium — Specification ( <i>Third Revision</i> )
IS 4281 : 1967	Specification for Scissors, McIndoe's, For Plastic Surgery

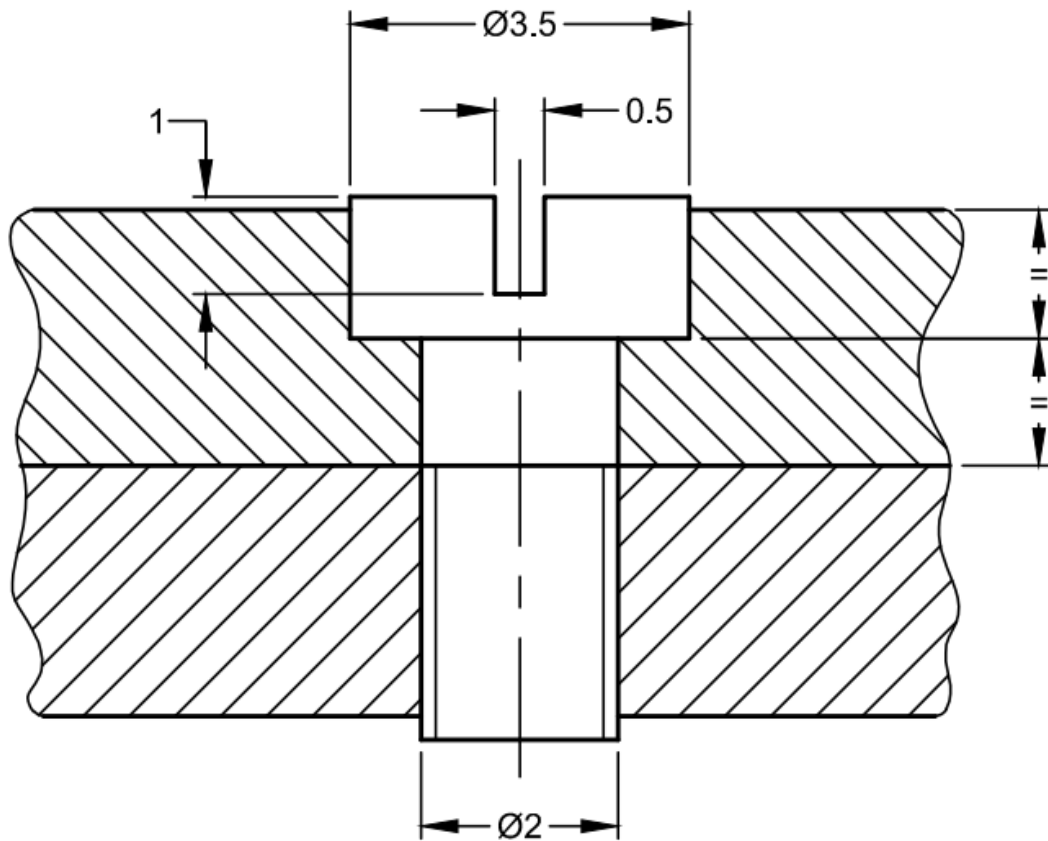
## 3 SHAPE AND DIMENSIONS



All dimensions in millimetres.

Fig. 1 Scissors, Crown, Dental, Straight and Curved on Flat

**3.1** The screw used shall be slotted raised cheese head pattern as shown in Fig. 2. The profile of the screw thread shall conform to IS 4218 (Part 1). The thread shall be of such length as to allow sufficient shank for proper bearing surface and to adequately secure component parts of the scissors with proper tension for cutting. The screw shall retain proper position after setting without binding and loosening during the use. The screw end may be left projecting up to 0.5 mm.



(M2 SCREW, PITCH 0.4)

All dimensions in millimetres.  
Fig. 2 Detail of Screw Assembly

### 3.2 Finger Loop

The finger loop shall be properly shaped and size shall conform to Size No. 1 of 12 of Section 5 of IS 3642.

## 4 MATERIAL

Instrument shall be made of carbon steel conforming to Designation T80V2 of IS 1570 (Part 6).

## 5 WORKMANSHIP AND FINISH

5.1 The scissors shall be symmetrical and well balanced.

5.2 The blades shall open and close without stiffness and shall have a slight crossover action to give continuous pinch and shall have no play at the joint.

5.3 The scissors shall be free from cracks, seams, burrs, flaws and like defects. The surfaces of the scissors shall be finished smooth, passivated and polished bright. The edges shall be even

and rounded except for the cutting edges which shall be sharp. The cutting edges shall not have any feathers.

**5.4** The scissors shall be plated chromium over nickel and the plating shall conform to Service Grade 2 of IS 1068.

## **6 HARDNESS**

The scissors shall be evenly hardened and tempered to 693 to 700 *HV*.

## **7 PERFORMANCE TEST**

The scissors shall be tested by cutting 0.710 mm diameter soft stainless steel wire. The wire shall be cut easily and cleanly. The test shall be carried out five times. On completion of the test, the scissors shall show no sign of damage.

## **8 MARKING**

**8.1** Each scissors shall be legibly and indelibly marked with the manufacturer's name, initials or 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 there under, and the product(s) may be marked with the Standard Mark.

## **9 PACKING**

The packing shall be done in accordance with IS 4281.