

**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा  
**ड्राफिन सस्पेंशन उपकरण के लिए विशिष्टि**  
*(First Revision of IS 10272)*

*Draft Indian Standard*  
**Specification for Draffin Suspension Apparatus**  
*(First Revision of IS 10272)*

[ICS 11.040.30]

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

Last date for comments: **25 July, 2024**

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FOREWORD

*(Formal clause will be added later)*

This standard was originally published in 1982. 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 DRAFFIN SUSPENSION APPARATUS****1 SCOPE**

Specifies the dimensional and other requirements for Draffin suspension apparatus used to hold the tongue plates over the patient's chest during throat 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 6603 : 2024	Stainless Steel Semi-Finished Products, Bars, Wire Rods and Bright Bars — Specification (Second Revision)
IS 7531 : 1990	Surgical instruments - Corrosion resistance of stainless steel surgical instruments - Methods of tests (First Revision)

**3 SHAPE AND DIMENSIONS**

As shown in Fig, 1

**3.1** The tolerances on various dimensions, where not specified, shall be:

- a)  $\pm 0.2$  mm for dimensions up to 10.0 mm, and
- b)  $\pm 1.0$  mm for dimensions above 10.0 mm.

**4 MATERIALS**

Stainless steel conforming to Designation 20 Cr 13 of IS: 6603.

**5 WORKMANSHIP AND FINISH**

**5.1** Both the bipod legs shall have four rings soldered end to end in one plane with their centers in line with the axis of the straight leg.

**5.2** The base plate and the bipod shall be free from cracks, other tool marks and sharp edges.

**5.3** Both the legs of bipod shall be identical to each other in all respects when examined by placing them on one another.

**5.4** The bipod legs shall be polished bright and passivated.

**5.5** The base plate shall be straight flat bar with smooth surfaces and free from sharp edges.

## **6 HEAT TREATMENT**

The bipod legs and the base plate shall be hardened and tempered to give a hardness of 360 to 470 HV.

## **7 TESTS**

**7.1 Corrosion Resistance Test** — Test the bipod legs as prescribed in IS: 7531, It shall not show any sign of corrosion after the test.

**7.2 Bend Test** — Hold the bipod leg in a vice from the ring in the end of the leg horizontally. Apply a force of about 100 N (10 kgf) vertically downwards on the free end of the leg in a gradual manner. Repeat the test with other leg of the bipod. The leg shall be capable of bearing this load for at least 60 seconds without any damage or permanent set.

## **8 MARKING**

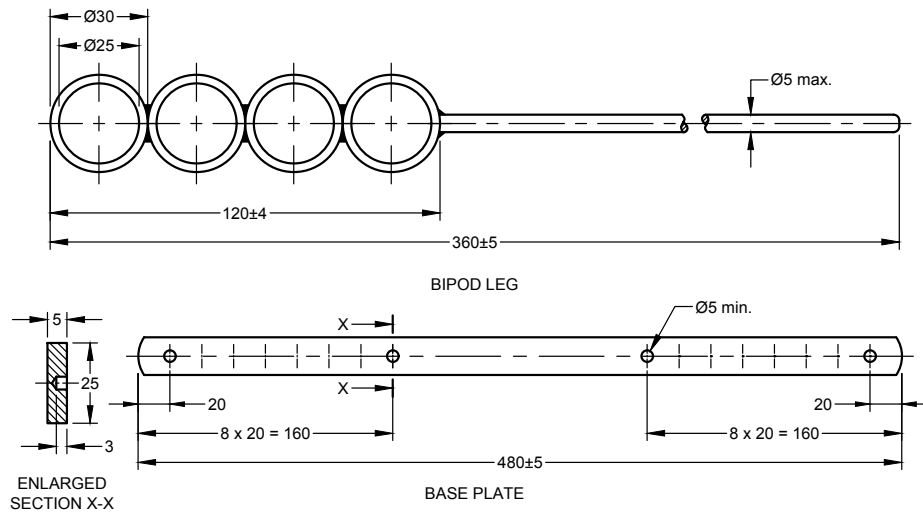
The bipod legs and base plate shall be marked with the manufacturer's name or registered trademark, the country of manufacture, and the words 'Stainless Steel' or the letters 'SS'.

## **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**

As agreed to between the purchaser and the supplier. On the package of the product batch Number, Lot Number, and Serial Number shall be mentioned.



All dimensions in millimetres.

FIG. 1 BIPOD LEG AND BASE PLATE