

**BUREAU OF INDIAN STANDARDS**

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भारतीय मानक मसौदा

ईएनटी शल्य चिकित्सा उपकरण — रिट्रैक्टर — हेजेक पैटर्न —  
विशिष्टि

*(IS 8316 का पहला पुनरीक्षण)*

*Draft Indian Standard*

**ENT Surgery Instruments – Retractor – Hajek’s Pattern  
– Specification**

*(First Revision of IS 8316)*

[ICS 11.040.30]

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Ear, Nose, Throat and Head & Neck Surgery (ENT  
- H&N) Instruments Sectional Committee, MHD 04

Last date for comments:  
**07 December 2024**

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FOREWORD

*(Formal clause will be added later)*

This standard was originally published in 1977. 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 – RETRACTOR – HAJEK’S  
PATTERN – SPECIFICATION**

**1 SCOPE**

This standard specifies requirements for Hajek’s pattern retractor 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.

<i>IS No.</i>	<i>Title</i>
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 SHAPE AND DIMENSIONS**

**3.1** The shape and dimensions shall be as shown in **Fig.1**.

**3.2** A deviation of  $\pm 2.5$  percent shall be allowed on all dimensions.

**4 MATERIAL**

Stainless steel sheet conforming to Designation X04Cr18Ni10 or X07Cr18Ni9 of IS 6911.

**5 WORKMANSHIP AND FINISH**

**5.1** The retractor shall be of one-piece construction and shall be free from burrs, pits, cracks and other surface flaws.

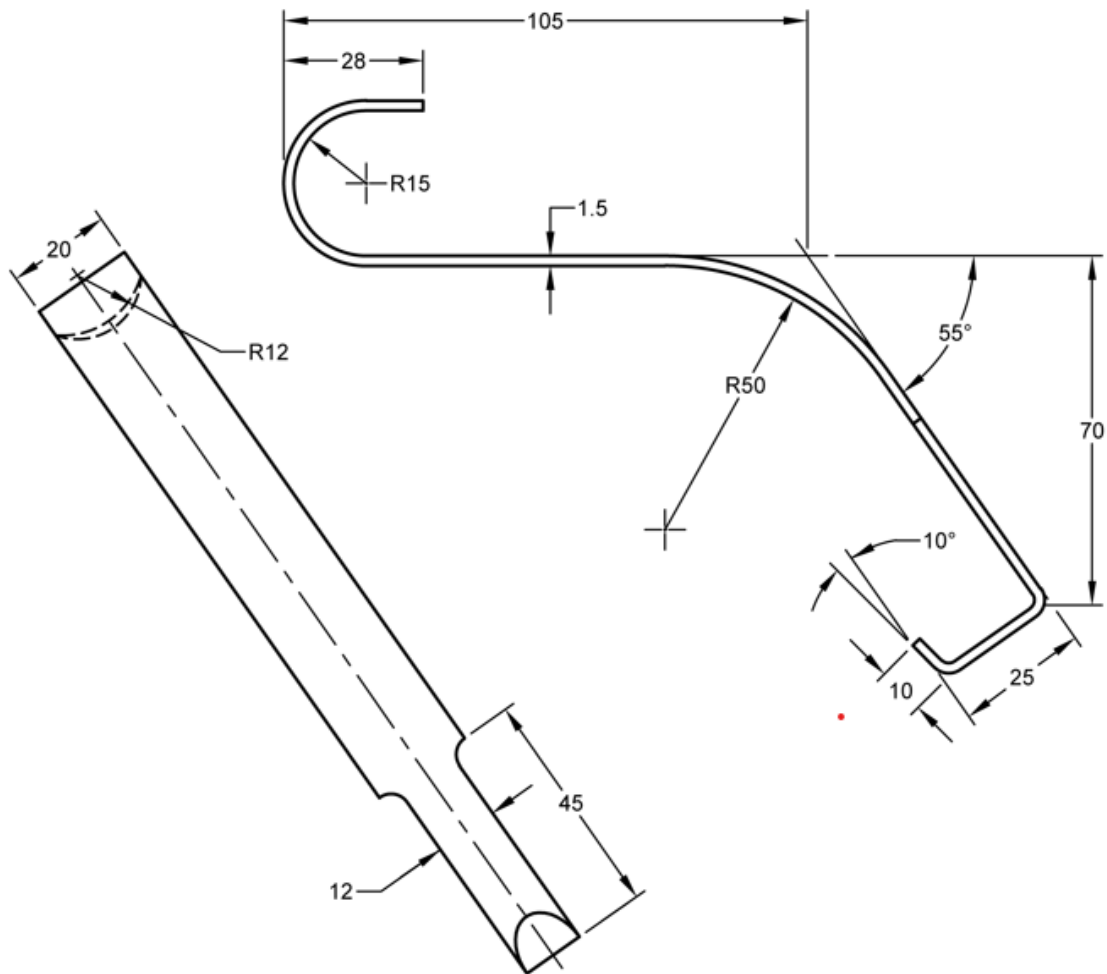
**5.2** The edges of the retractor shall be even, rounded and shall not be sharp.

**5.3** The retractor shall be polished bright and passivated.

**5.4** The thickness of the retractor shall be uniform throughout.

**6 TESTS**

Test the sample in accordance with IS 7531 for corrosion resistance. The sample shall show no sign of corrosion after the test.



**All dimensions in millimeters.**  
**FIG. 1 HAJEK'S PATTERN RETRACTOR**

## 7 MARKING

**7.1** The retractor shall be legibly and indelibly marked with the manufacturer's name initials or registered trade-mark, and the country of manufacture.

## 7.2 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.

Doc: MHD 04 (26670) WC

September 2024

## **8 PACKING**

The refractor shall be wrapped in moisture-proof paper or packed in polyethylene, Bags. The retractor may also be packed as agreed to between the purchaser and the supplier.