
हड्डी धरने के लिए फैराब्यूफ
पैटर्न चिमटी — विशिष्टि

(पहला पुनरीक्षण)

**Farabeuf Pattern Bone Holding
Forceps — Specification**

(*First Revision*)

ICS 11.040.40

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FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Orthopaedic Instruments, Implants and Accessories Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1974. The first revision of this standard has been brought out to align the cross references to latest standards.

The composition of the Committee responsible for formulation of this standard is given in [Annex A](#).

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***FARABEUF PATTERN BONE HOLDING FORCEPS —
SPECIFICATION***(First Revision)***1 SCOPE**

The standard specifies dimensions and other requirements for Farabeuf's pattern bone holding forceps, used in orthopaedic 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 (<i>second revision</i>)
IS 7531: 1990	Surgical instruments — Corrosion resistance of stainless-steel surgical instruments — Methods of tests (<i>first revision</i>)

3 MATERIAL**3.1 Arms**

The arms of forceps shall be made of stainless steel conforming to Designation X30Cr13 of IS 6603.

3.2 Screws

The screws shall conform to stainless steel of Designation X20Cr13 of IS 6603.

4 SHAPE AND DIMENSIONS

The shape and dimensions shall be as per [Fig. 1](#).

5 WORKMANSHIP AND FINISH

5.1 The forceps shall be free from rough edges, pits, burrs, cracks and grinding marks.

5.2 The teeth on the jaws shall be well formed and clean.

5.3 The two arms shall move freely and smoothly at the joint without any undue play.

5.4 The forceps shall be finished smooth and passivated. The polishing shall be done in accordance with the choice of the consumer.

6 HEAT TREATMENT

The forceps shall be hardened and tempered to give a hardness of 380 HV to 420 HV as per IS 6603 for given designation of steel.

7 TESTS**7.1 Rigidity**

Hold a piece of hardwood, of minimum thickness of 12 mm, in the jaws of the forceps. Apply a compressive force of 1 000 N to the handles of the forceps at 20 mm distance from the free end. Allow the force to act for two minutes. On completion of the test, the forceps shall show no sign of damage or permanent set.

7.2 Corrosion Resistance

The forceps shall show no sign of corrosion when tested in accordance with IS 7531.

8 MARKING

8.1 The forceps shall be marked with the manufacturer's name, initials or registered trademark and with the words 'Stainless Steel'.

8.2 BIS Certification Marking

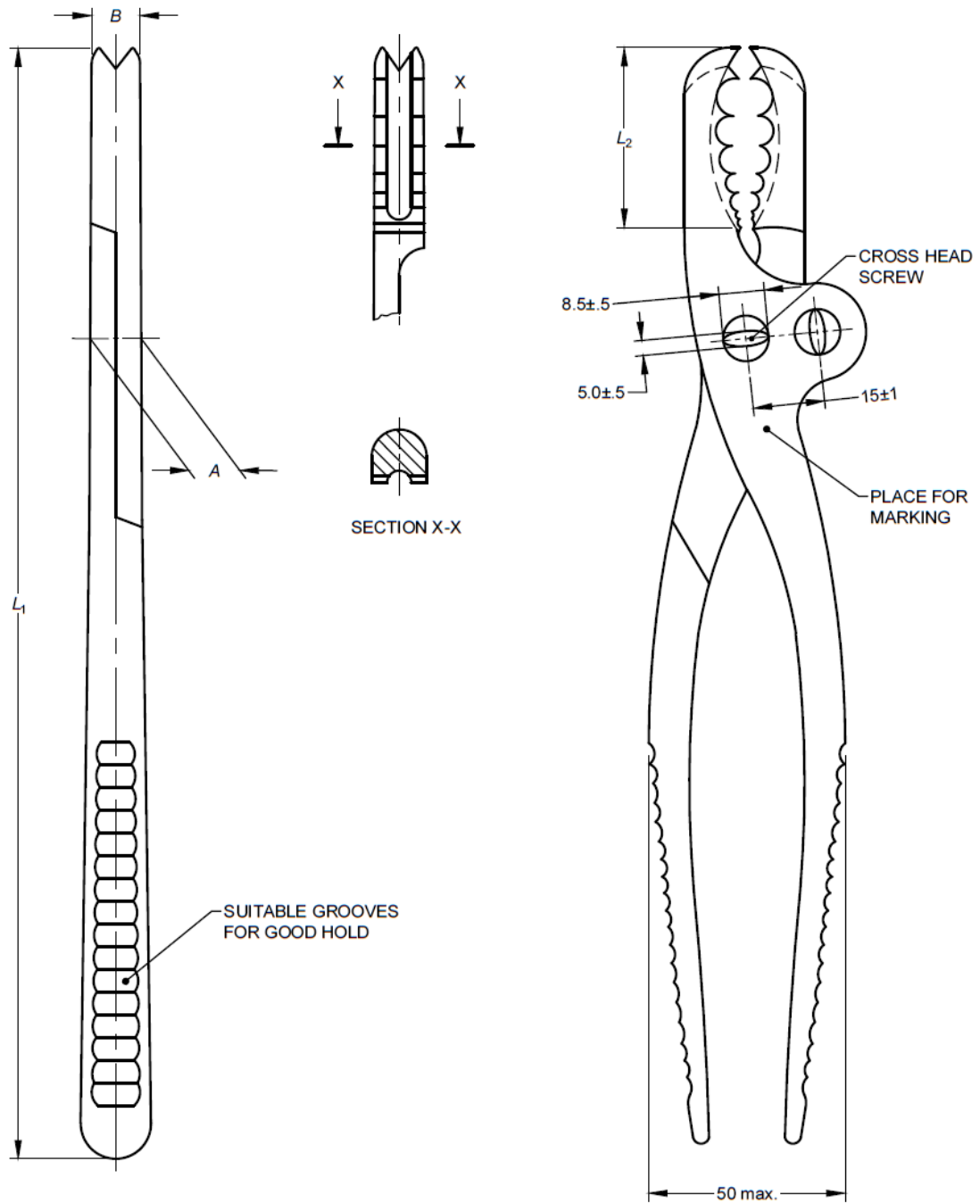
The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the product(s) may be marked with the Standard Mark.

9 PACKING

As agreed to between the purchaser and the supplier.

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All dimensions in millimetres.

FIG. 1 FORCES, BONE HOLDING, FARABEUFS PATTERN

<i>Sl No.</i>	L_1^* ± 5	L_2^* ± 5	A^* ± 0.5	B^*	<i>Weight,</i> <i>(Approx.)</i> g
(1)	(2)	(3)	(4)	(5)	(6)
i)	230	35	10.0	9.5 ± 0.5	300
ii)	225	40	12.0	11 ± 1	400

* All dimensions in millimetres.

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Orthopaedic Instruments, Implants and Accessories Sectional Committee, MHD 02

<i>Organization</i>	<i>Representative(s)</i>
In Personal Capacity (<i>D-255, Swarn Nagri, Sector 31, Opposite Kamla Gate of Jaypee Green, Greater Noida – 201315</i>)	DR SUDHIR KUMAR (<i>Chairperson</i>)
Artificial Limbs Manufacturing Corporation of India, Kanpur	SHRI A. K. SINGH SHRI VISHAL SHUKLA (<i>Alternate</i>)
Association of Indian Medical Device Industry, New Delhi	SHRI ANUJ DUREJA SHRI ANKUR BHARGAVA (<i>Alternate I</i>) SHRI DEEPAK GUPTA (<i>Alternate II</i>)
CSIR - Central Glass and Ceramic Research Institute, Kolkata	DR BISWANATH KUNDU DR VAMSI K. BALLA (<i>Alternate</i>)
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Healthium Medtech Limited, Noida	SHRI RAAJJHESH R. KULKARNI SHRI PANKAJ DAWAR (<i>Alternate</i>)
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Kalam Institute of Health Technology, Vishakhapatnam	SHRI SREERAJ PALLATH RAJAN SHRI SANTOSH KUMAR BALIVADA (<i>Alternate</i>)
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BIS Directorate General	SHRI A. R. UNNIKISHNAN SCIENTIST 'G' AND HEAD (MEDICAL EQUIPMENT AND HOSPITAL PLANNING) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary

SHRI VINIT VIDYADHAR BANSOD
SCIENTIST 'C'/DEPUTY DIRECTOR
(MEDICAL EQUIPMENT AND HOSPITAL PLANNING), BIS

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