

वस्त्रादि — कपास करघों के लिए स्प्रिंग
बफर्स — विशिष्टि
(दूसरा पुनरीक्षण)

Textiles — Spring Buffers for Cotton
Looms — Specification
(Second Revision)

ICS 59.120.30

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FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Textile Machinery and Accessories Sectional Committee had been approved by the Textiles Division Council.

This standard was originally published in 1960 and subsequently revised in 1976. This revision has been made in the light of experience gained since its publication and to incorporate the following major changes:

- a) Forward has been incorporated;
- b) Title of the standard has been modified;
- c) Marking and packing clauses have been modified;
- d) Sampling clause has been incorporated; and
- e) References to Indian standards have been updated.

The composition of the committee responsible for the formulation of this standard is listed 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 the same as that of the specified value in this standard.

Indian Standard

TEXTILES — SPRING BUFFERS FOR COTTON LOOMS —
SPECIFICATION

(Second Revision)

1 SCOPE

Covers vegetable/chrome-tanned, stapled/lace-sewn small-size and large-size (ordinary as well as bohemian) spring buffers used on over-pick looms.

2 REFERENCES

The standards listed 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 the standards listed below.

IS No.	Title
IS 2500 (Part 1) : 2000	Sampling procedures for inspection by attributes: Part 1 Sampling schemes indexed by acceptance quality limit (AQL) for lot by lot inspection (third revision)
IS 7043 : 1973	Specification for loom (fly) spindles

3 SHAPE AND DIMENSIONS

Shape and dimensions of spring buffers shall be as given in Fig. 1 to Fig. 5.

3.1 Positioning of Spindle Holes

The distance between the longitudinal axis of the loom spindle conforming to IS 7043 unless otherwise specified, inserted in the buffer and the plain surface at which the buffer would be resting shall be 17 mm to 19 mm when measured as shown in Fig. 1.

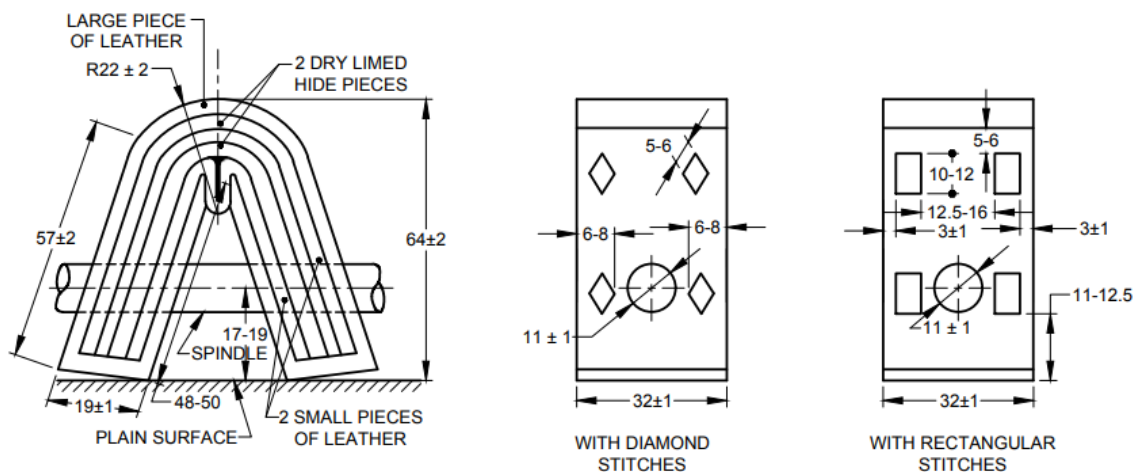
4 MATERIALS

Material used for spring buffers shall be Tanned-leather from buffalo or heavy ox hides.

5 WORKMANSHIP

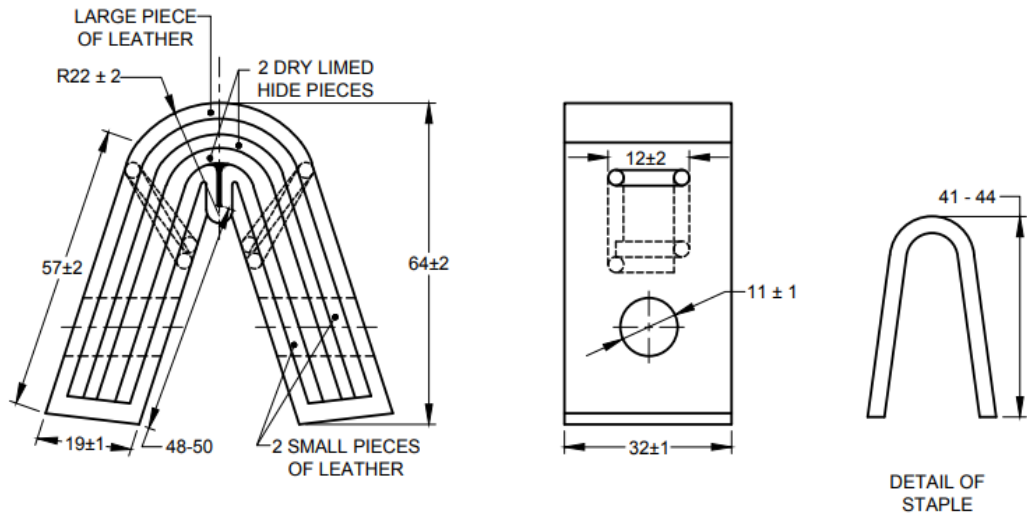
5.1 The number of dry limed hide pieces to be introduced between the leather pieces shall not exceed 2 in any spring buffer.

5.2 Each piece of leather as well as dry limed hide shall be without any splice or joint and there shall be no void discernible to naked eye, between the layers of the buffer.



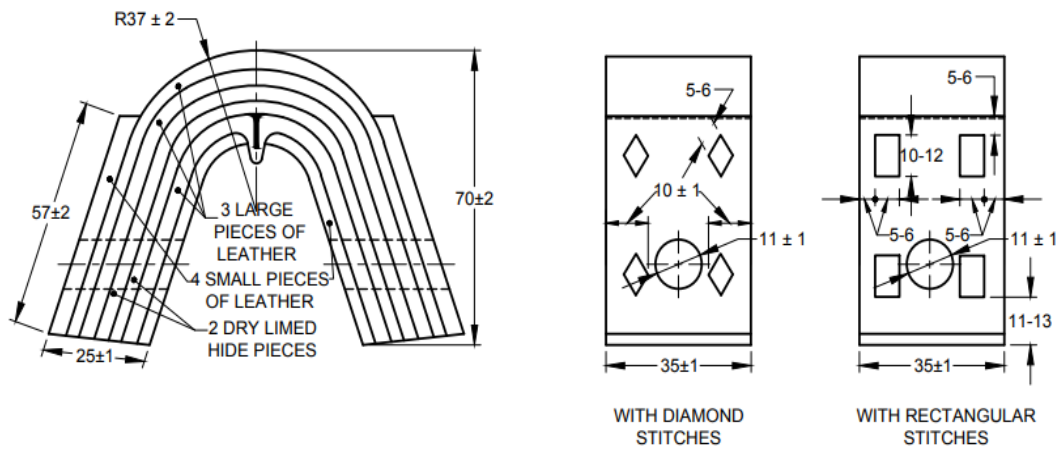
All dimensions in millimetres

FIG. 1 TYPICAL SMALL SIZE LACE-SEWN BUFFER



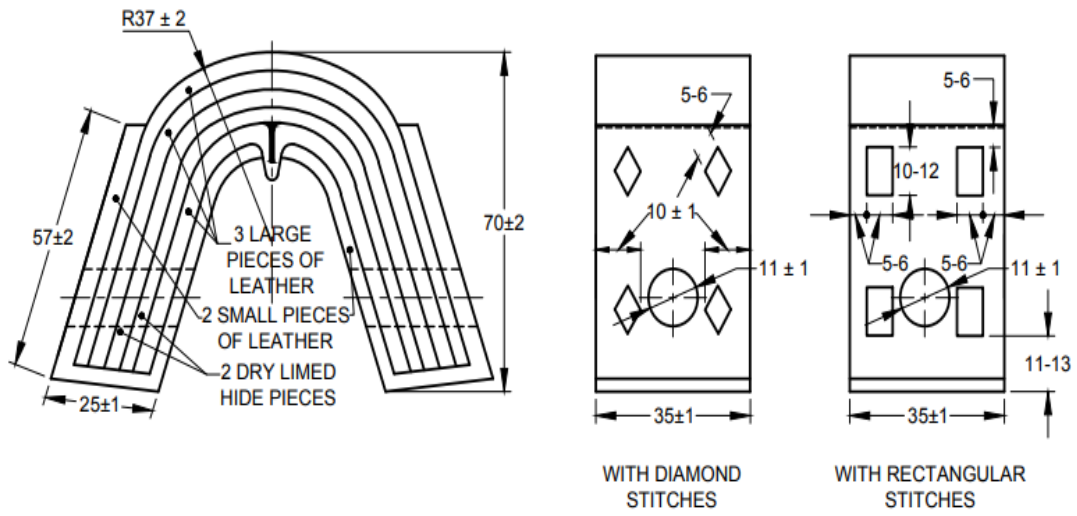
All dimensions in millimetres

FIG. 2 TYPICAL SMALL SIZE STAPLED BUFFER



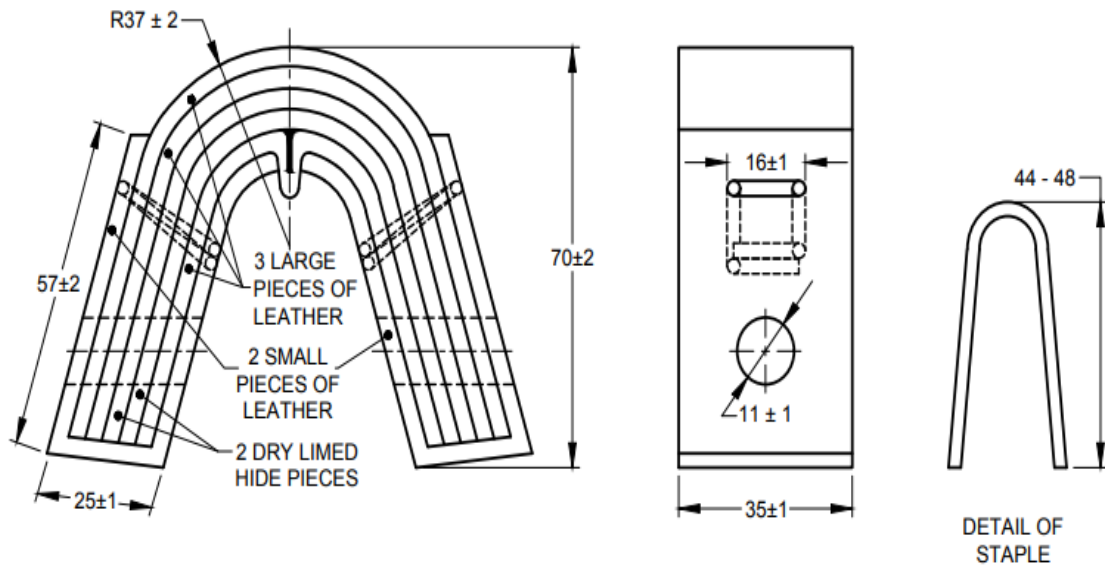
All dimensions in millimetres

FIG. 3 TYPICAL LARGE SIZE ORDINARY LACE-SEWN BUFFER



All dimensions in millimetres

FIG. 4 TYPICAL LARGE SIZE BOHEMIAN LACE-SEWN BUFFER



All dimensions in millimetres

FIG. 5 TYPICAL LARGE SIZE BOHEMIAN STAPLED BUFFER

5.3 The position of the staples should be such that they do not touch the picker and remain as away as possible from the spindle hole.

5.4 The nails used at pre-stapling stage should be removed after stapling.

6 FASTENERS

6.1 Stitching

Shall be with dry limed hide lacing 5 mm wide and 1 mm thick, using any suitable type of stitch.

6.2 Stapling

Shall be with 2 staples of mild steel or galvanized iron, wire 2.80 mm to 3.15 mm in diameter.

7 MASS

7.1 Small Size Spring Buffers: (85 ± 4) g, (92 ± 5) g, or (99 ± 5) g; and

7.2 Large Size Spring Buffers: (120 ± 6) g, (128 ± 6) g, (135 ± 7) g or (142 ± 7) g.

8 SPINDLE HOLES

Circular, corresponding to the particular spindle size given in IS 7043 (unless otherwise specified) with a tolerance of $\begin{matrix} +1 \\ -0 \end{matrix}$ mm on diameter.

9 MARKING

Each spring buffer shall bear the name of manufacturer or trade-mark, and a code number to

trace the month and year of manufacture.

9.1 Each spring buffer/carton of spring buffer shall also bear the following information:

- a) Type of the leather;
- b) Code number to trace back the history of production;
- c) Dimension of spring buffer;
- d) Number of spring buffers in lot;
- e) Gross and net mass;
- f) Lot/batch number;
- g) Country of origin; and
- h) Any other information required by the law in force and/or by the buyer.

9.2 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 products may be marked with the Standard Mark.

10 PACKING

Spring buffers shall be suitably packed as may be agreed to between the concerned parties. The package should contain fixed number of spring buffers essentially of the same variety.

11 SAMPLING

Unless otherwise agreed to between the buyer and the seller, to ascertain the conformity of spring buffers to the requirements of this specification, or as specified in IS 2500 (Part 1) shall be followed.

ANNEX A
(Foreword)

COMMITTEE COMPOSITION

Textile Machinery and Accessories Sectional Committee, TXD 14

<i>Organization</i>	<i>Representative(s)</i>
Central Manufacturing Technology Institute, Bengaluru	DR NAGAHANUMAIAN (Chairperson)
ATE Enterprises Private Limited, New Delhi	SHRI ABHIJIT KULKARNI SHRI ANIL KUMAR SHARMA (<i>Alternate</i>)
Amritlakshmi Machine Works, Mumbai	SHRI N. K. BRAHMACHARI SHRI N. K. RAUT (<i>Alternate</i>)
Bhowmick Calculator, Kolkata	SHRI GOUTAM BHOWMICK SHRI VIVEKANANDA BHOWMICK (<i>Alternate</i>)
Central Manufacturing Technology Institute, Bengaluru	SHRI B. R. MOHANRAJ SHRI K. SARAVANAN (<i>Alternate</i>)
Confederation of Indian Textile Industry, New Delhi	SHRI AJAY KUMAR
Dashmesh Jacquard and Powerloom Private Limited, Panipat	SHRI RAJMEET DHAMMU (<i>Representative</i>)
HLL Lifecare Limited, Noida	SHRI AKHIL G. S. SHRI RATNAKAR GUPTA (<i>Alternate</i>)
ICAR-Central Institute for Research on Cotton Technology, Mumbai	DR V. G. ARUDE DR T. SENTHILKUMAR (<i>Alternate</i>)
India ITME Society, Mumbai	SHRI PRASHANT MANGUKIA SHRIMATI SEEMA SRIVASTAVA (<i>Alternate</i>)
Indian Jute Industries Research Association, Kolkata	SHRIMATI SAUMITA CHOUDHURY SHRI PARTHA SANYAL (<i>Alternate</i>)
Indian Textile Accessories and Machinery Manufacturers Association, Mumbai	SHRI N. D. MHATRE SHRI CHANDRESH SHAH (<i>Alternate</i>)
Inspiron Engineering Private Limited, Ahmedabad	SHRI SANJAY KOWARKAR SHRI PRATYUSH B. CHAUKASE (<i>Alternate</i>)
JCB Industries, Guwahati	SHRI DHRUBA SARMA SHRI ABHIJIT BHUYAN (<i>Alternate</i>)
Kusters Calico Machinery Limited, Karjan	SHRI DEVANG PARIKH SHRI SHUBHASIS SUR (<i>Alternate</i>)
Lakshmi Machine Works Limited, Coimbatore	SHRI V. LAKSHMI VARADHARAJAN
Laxmi Shuttleless Looms Private Limited, Ahmedabad	SHRI KETAN SANGHVI
Man Made Textiles Research Institute, Surat	DR S. K. BASU
Ministry of Heavy Industries and Public Enterprises, Department of Heavy Industry, New Delhi	SHRI SNAJEEV GUPTA SHRI S. SUNDAR (<i>Alternate</i>)
National Safety Council, Navi Mumbai	SHRI LALIT R. GABHANE SHRI R. R. DEOGHARE (<i>Alternate</i>)
Office of the Textile Commissioner, Mumbai	SHRI C. R. KALESAN SHRI JAGRAM MEENA (<i>Alternate</i>)

<i>Organization</i>	<i>Representative(s)</i>
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Technocraft Industries India Limited, Mumbai	SHRI RAVINDER KUMAR SHRI DURADUNDESHWAR HIEMATH (<i>Alternate</i>)
Textile Machinery Manufacturers Association, Mumbai	SHRI M. SHANKAR SHRI PRASHANT MANGUKIA (<i>Alternate</i>)
The Bombay Textile Research Association, Mumbai	SHRI VIJAY GAWDE SHRI R. A. SHAIKH (<i>Alternate</i>)
The Synthetic and Art Silk Mills Research Association, Mumbai	DR MANISHA MATHUR SHRI SANJAYA SAINI (<i>Alternate</i>)
The Textile Association (India), Mumbai	SHRI J. B. SOMA SHRI ASHOK JUNEJA (<i>Alternate</i>)
Truetzschler India Private Limited, Ahmedabad	SHRI PRAVIN KANDGE SHRI SHILADITYA JOSHI (<i>Alternate</i>)
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BIS Directorate General	SHRI J. K. GUPTA, SCIENTIST 'E'/DIRECTOR AND HEAD (TEXTILES) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary
SHRI SWAPNIL
SCIENTIST 'B'/ASSISTANT DIRECTOR
(TEXTILES), BIS

Bureau of Indian Standards

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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