

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS B 7512 : 2005

(JMIF)

Steel tape measures

ICS 17.040.01

Reference number : JIS B 7512 : 2005 (E)



Documents

Document Sharing Hub

8 S

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Measuring Instrument Federation (JMIF) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS B 7512 : 1993** is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Date of Establishment: 1957-03-29

Date of Revision: 2005-03-20

Date of Public Notice in Official Gazette: 2005-03-22

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Testing and
Measurement Technology

JIS B 7512:2005, First English edition published in 2005-11

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

© JSA 2005

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

Contents

		Page
1	Scope	1
2	Normative references	1
3	Definitions	1
4	Classification and grading	2
5	Nominal size	2
6	Performance	3
6.1	Tolerances on length	3
6.2	Uprightness	3
6.3	Straightness of scale side face	4
7	Graduations	4
8	Appearance and construction	7
9	Materials	7
10	Measuring methods	8
11	Inspection	10
12	Designation	10
13	Marking	10

Steel tape measures

1 Scope This Japanese Industrial Standard specifies the steel tape measures of 0.5 m to 200 m in nominal size (hereafter referred to as “tape measures”).

2 Normative references The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7516 *Metal rules*

JIS G 4401 *Carbon tool steels*

JIS G 4305 *Cold rolled stainless steel plates, sheets and strip*

JIS Q 17025 *General requirements for the competence of testing and calibration laboratories*

JIS Z 8103 *Glossary of terms used in measurement*

3 Definitions For the purpose of this Standard the definitions in **JIS Z 8103** and the following apply. The name of the respective parts of tape measures shall be in accordance with figure 1.

- a) **reference point** the centre line of graduation line or the end face to be taken as the reference of measurement (see figure 1)
- b) **effective measuring range** the range from the reference point to the graduation line which expresses the nominal size

The tolerances on length are applicable to the scale in this range.

- c) **extended scale (margin scale)** scales outside the effective measuring range
- The tolerances on length are not applicable to these scales.

- d) **margin** portions of the tape (including extended scale) outside the effective measuring range

That margin followed by the graduation line of the reference point is called “top margin” and that following the graduation line of the nominal size “end margin”.

- e) **scale spacing** the length between two adjacent graduation lines measured centre-to-centre of their thicknesses
- f) **scale interval*** magnitude of measuring amount corresponding to the scale spacing

Note * The scale interval mentioned here is an abstract idea.

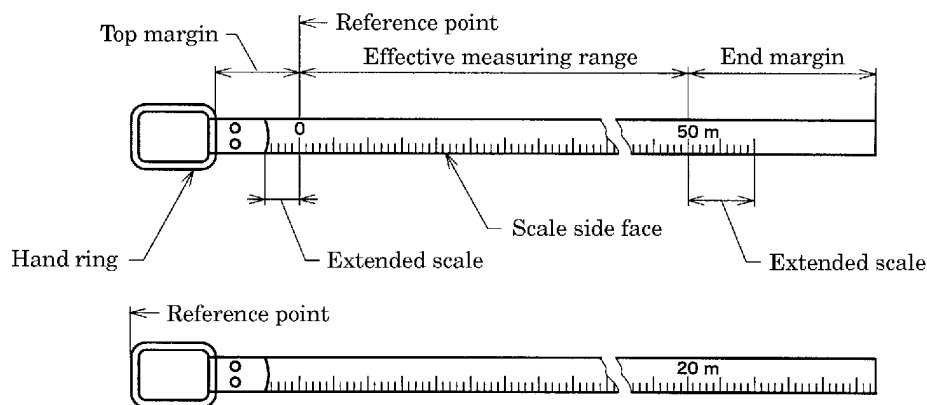


Figure 1.1 Band tape, wide tape measure and narrow tape measure

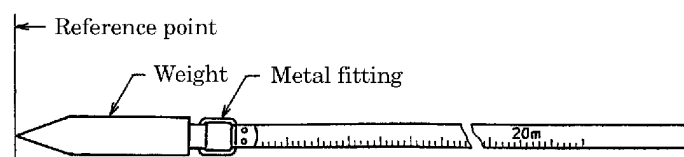


Figure 1.2 Tank tape measure

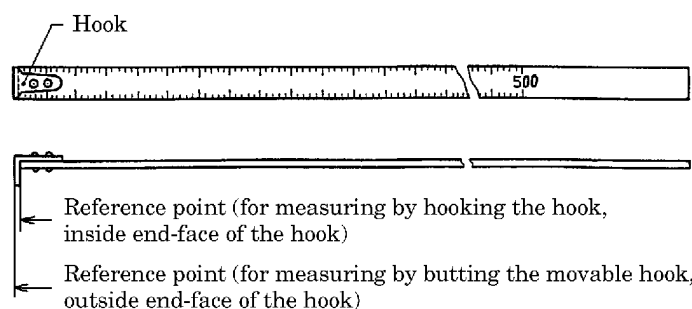


Figure 1.3 Convex rule and narrow tape measure

Remarks : These drawings (figures 1.1 to 1.3) are only for indicating the name and not for specifying the shape and construction.

Figure 1 Names of respective parts

4 Classification and grading Tape measures shall be classified according to the construction, use and the like as given in table 1, and are graded into grades 1 and 2 according to the tolerance on length.

5 Nominal size The nominal size of tape measures shall be expressed by the maximum scale value of effective measuring range as given in table 1 by every type.