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Steel tape measures

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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.

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In the event of any doubts arising as to the contents,
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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.

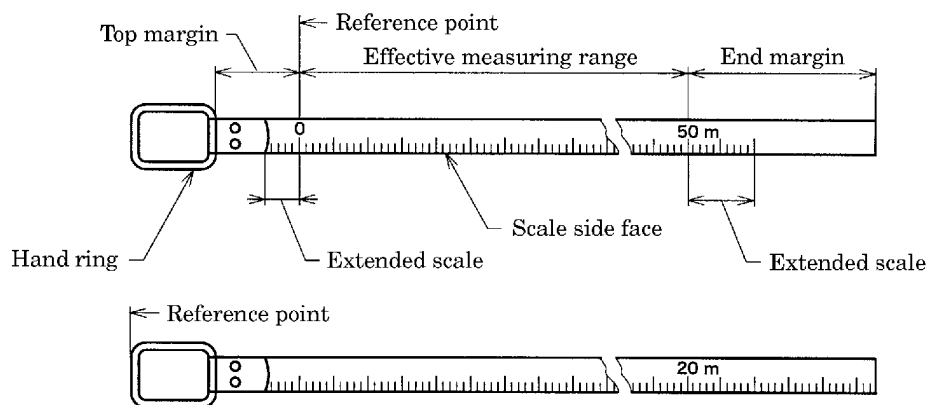


Figure 1.1 Band tape, wide tape measure and narrow tape measure

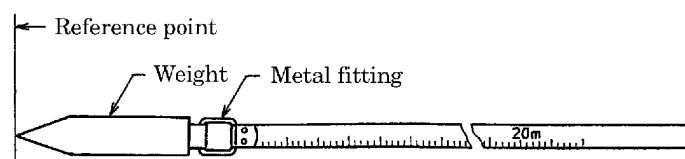


Figure 1.2 Tank tape measure

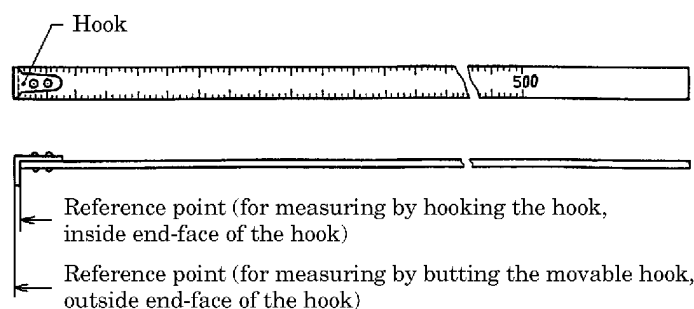


Figure 1.3 Convex rule and narrow tape measure

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.