

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS T 0112 : 2002

(ISO 15032 : 2000)

Prostheses—Structural testing of hip units

ICS 11.040.40

Reference number : JIS T 0112 : 2002 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

This Standard has been made based on **ISO 15032 : 2000 *Prostheses—Structural testing of hip units*** for the purposes of making easy to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of International Standard which is based on Japanese Industrial Standard.

Date of Establishment: 2002-03-20

Date of Public Notice in Official Gazette: 2002-03-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Assistive
Technology

JIS T 0112:2002, First English edition published in 2003-09

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.

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Printed in Japan

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Prostheses—Structural testing of hip units

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 15032 Prostheses—Structural testing of hip units** published in 2000 without modifying the technical contents.

1 Scope This Standard specifies test methods for components and assemblies of hip disarticulation prostheses which are arranged at hip and thigh level. It does not apply to other components of lower limb prostheses for which test methods are given in **JIS T 0111** series.

This Standard specifies procedures for simplified static and cyclic strength tests in which the antero-posterior (A-P) and medio-lateral (M-L) components of loading are produced in separate tests by the application of test forces in two different test planes. The components of loading produced in the test sample relate to the peak values of the components of loading which normally occur at different instants during the stance phase of walking.

NOTE : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are **IDT** (identical), **MOD** (modified), and **NEQ** (not equivalent) according to **ISO/IEC Guide 21**.

ISO 15032 : 2000 *Prostheses—Structural testing of hip units* (IDT)

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied.

JIS T 0101 : 1997 *Glossary of terms used in prosthetics and orthotics*

NOTE : **ISO 8549-1** : 1989 *Prosthetics and orthotics—Vocabulary—Part 1 : General terms for external limb prostheses and external orthoses* is equivalent to the said standard.

JIS T 0111-3 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 3 : Principal structural tests*

NOTE : **ISO 10328-3** : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 3 : Principal structural tests* is identical with the said standard.

3 Terms and definitions For the purposes of this Standard, the definitions given in **JIS T 0101** and the following definitions apply.

3.1 brittle failure fracture of any component without significant plastic deformation at the fracture.