



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS T 0111-2 : 1997

(ISO 10328-2 : 1996)

(Reaffirmed : 2003)

**Prosthetics – Structural testing
of lower-limb prostheses –
Part 2 : Test samples**

ICS 11. 040. 40

Descriptors : artificial limbs, artificial organs, legs, mechanical testing, strength of materials, medical equipment, samples

Reference number : JIS T 0111-2 : 1997 (E)

PROTECTED BY COPYRIGHT

AVA Documents
Document Sharing Hub

Foreword

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

JIS T 0111 consists of the following 8 parts under the general title

Prosthetics — Structural testing of lower-limb prostheses:

- *Part 1 : Test configurations*
- *Part 2 : Test samples*
- *Part 3 : Principal structural tests*
- *Part 4 : Loading parameters of principal structural tests*
- *Part 5 : Supplementary structural tests*
- *Part 6 : Loading parameters of supplementary structural tests*
- *Part 7 : Test submission document*
- *Part 8 : Test report*

Date of Establishment: 1997-07-20

Date of Reaffirmation : 2003-05-20

Date of Public Notice in Official Gazette: 2003-05-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Medical and Safety

JIS T 0111-2 : 1997, First English edition published in 2004-08

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 2004

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.

M&T

Printed in Japan

PROTECTED BY COPYRIGHT

 **Documents**
Document Sharing Hub

Prosthetics—Structural testing of lower-limb prostheses

—Part 2 : Test samples

Introduction This Japanese Industrial Standard has been prepared based on the first edition of ISO 10328-2 *Prosthetics — Structural testing of lower-limb prostheses — Part 2 : Test samples* published in 1996 without modifying the technical contents.

1 Scope JIS T 0111 specifies procedures for static and cyclic strength tests of lower-limb prostheses where, with one exception, compound loadings are produced by the application of a single test force. The compound loads 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.

The tests described in JIS T 0111 apply to trans-tibial (below-knee), knee-disarticulation and trans-femoral (above-knee) prostheses.

Remarks : The tests may be performed on complete structures, on partial structures, or on individual components.

In Part 2* of JIS T 0111, the following items are specified:

- the types of test samples;
- the selection of test samples;
- the preparation of test samples;
- the alignment of test samples,
- responsibilities.

Note* : Parts 1, 2, 3, 4, 5, 6, 7, 8 of JIS T 0111 are referred to as JIS T 0111-1, JIS T 0111-2, JIS T 0111-3, JIS T 0111-4, JIS T 0111-5, JIS T 0111-6, JIS T 0111-7 and JIS T 0111-8, respectively.

2 Normative references The normative references of this part of JIS T 0111 are shown below:

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

Remarks : 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 0111-1 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 1 : Test configurations*

Remarks : ISO 10328-1 : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 1 : Test configurations* is equivalent to the said standard.

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

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

JIS T 0111-4 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 4 : Loading parameters of principal structural tests*

Remarks : ISO 10328-4 : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 4 : Loading parameters of principal structural tests* is equivalent to the said standard.

JIS T 0111-5 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 5 : Supplementary structural tests*

Remarks : ISO 10328-5 : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 5 : Supplementary structural tests* is equivalent to the said standard.

JIS T 0111-6 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 6 : Loading parameters of supplementary structural tests*

Remarks : ISO 10328-6 : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 6 : Loading parameters of supplementary structural tests* is equivalent to the said standard.

JIS T 0111-7 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 7 : Test submission document*

Remarks : ISO 10328-7 : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 7 : Test submission document* is equivalent to the said standard.

JIS T 0111-8 : 1997 *Prosthetics—Structural testing of lower-limb prostheses—Part 8 : Test report*

Remarks : ISO 10328-8 : 1996 *Prosthetics—Structural testing of lower-limb prostheses—Part 8 : Test report* is equivalent to the said standard.

3 Definition of terms For the purposes of this part of JIS T 0111, the definitions given in JIS T 0101 apply.