

JAPANESE INDUSTRIAL STANDARD

Translated and Published by Japanese Standards Association

JIS T 0111-3:1997

(ISO 10328-3:1996) (Reaffirmed:2003)

Prosthetics – Structural testing of lower-limb prostheses – Part 3: Principal structural tests

ICS 11.040.40

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

T 0111-3: 1997

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 0111-3: 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

JIS T 0111-3: 1997 (ISO 10328-3: 1996)

Prosthetics—Structural testing of lower-limb prostheses Part 3: Principal structural tests

Introduction This Japanese Industrial Standard has been prepared based on the first edition of ISO 10328-3 Prosthetics—Structural testing of lower-limb prostheses—Part 3: Principal structural tests 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.

Part 3* of JIS T 0111 specifies:

- the methods to be used in carrying out the principal static tests;
- the methods to be used in carrying out the principal cyclic tests;
- the requirements for accuracy of the tests;
- the criteria to be met in order to claim compliance with this part of JIS T 0111.
 - 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