



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS T 0111-6 : 1997

(ISO 10328-6 : 1996)

(Reaffirmed : 2003)

**Prosthetics – Structural testing
of lower-limb prostheses –
Part 6 : Loading parameters of
supplementary structural tests**

ICS 11.040.40

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

Reference number : JIS T 0111-6 : 1997 (E)

PROTECTED BY COPYRIGHT

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 0111-6: 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.

Printed in Japan

M&T

PROTECTED BY COPYRIGHT

 **Documents**
Document Sharing Hub

Prosthetics—Structural testing of lower-limb prostheses

—Part 6 : Loading parameters of supplementary structural tests

Introduction This Japanese Industrial Standard has been prepared based on the first edition of ISO 10328-6 *Prosthetics—Structural testing of lower-limb prostheses—Part 6 : Loading parameters of supplementary 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 6* of JIS T 0111 specifies:

- the values of the offsets for setting up, aligning and loading the test sample, and
- the values of the test forces and moments to be applied for static and cyclic testing for the different supplementary structural tests specified in JIS T 0111 at the test load levels defined in JIS T 0111.

Note* : Parts 1, 2, 3, 4, 5, 6, 7, 8 of JIS T 0111 are designated 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 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 0111-5:1997 *Prosthetics —Structural testing of lower-limb prostheses —Part 5 : Supplementary structural tests*