IEC 60601-1 FIGURE 33

Body Upper-Carriage Module

Dynamic Loading Test Module for Patient Support Systems

A standard-related upper-body loading module used for IEC 60601-1 Clause 9.8.3.3 mechanical safety evaluation. Designed for dynamic loading tests on medical beds, examination tables, treatment chairs and similar ME equipment support structures.

Front view of the body upper-carriage module

Key Information

APPLICABLE STANDARD
IEC 60601-1 Figure 33 / Clause 9.8.3.3

TEST OBJECT
ME equipment parts supporting or suspending a patient or operator

PURPOSE
Dynamic loading evaluation of patient/operator support areas

TYPICAL USE
Medical beds, examination tables, treatment chairs and patient support platforms

CONFIGURATION
Module only, reservoir, loading mass, fixture or complete setup to be confirmed

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Catalog scope
Product overview, technical features, configuration notes and ordering support for laboratories.

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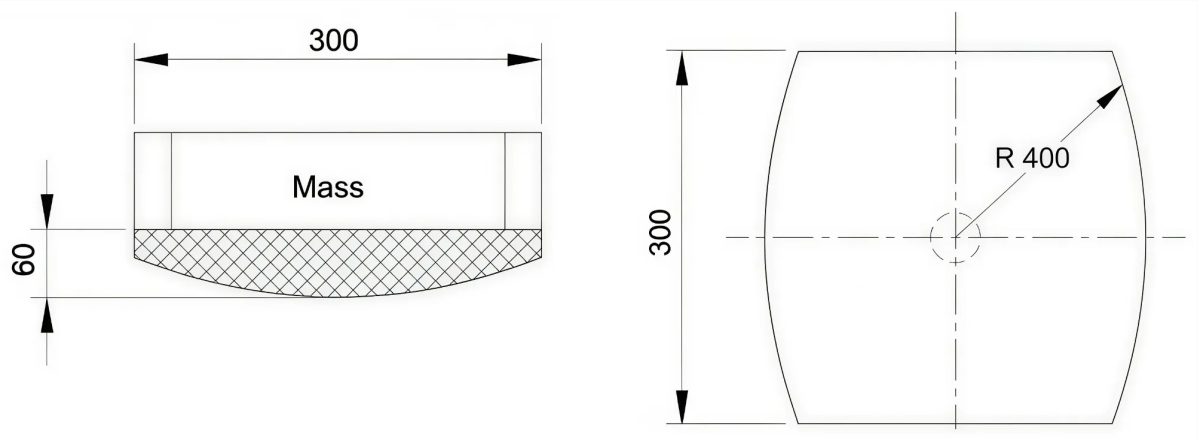
Product Overview

The IEC 60601-1 Figure 33 Body Upper-Carriage Module is used to reproduce upper-body loading during dynamic loading tests. It provides a defined body-shaped loading interface rather than a simple rigid block, helping laboratories evaluate support structures under person-loading conditions.



Dimension reference: 300 mm x 300 mm module outline, R400 curved loading surface, and 60 mm foam/contact structure shown in the drawing.

Applicable Standard

IEC 60601-1 Figure 33 and the related dynamic loading requirement of Clause 9.8.3.3.

Testing Principle

The loaded module is applied to support or suspension areas to simulate a person-loading event. The final result is judged on the tested ME equipment.

Main Application

Medical beds, examination tables, treatment chairs, patient chairs and other patient/operator support structures.

Use and Compliance Notes

- The module is normally used with suitable mass according to the safe working load of the equipment under test.
- Reservoir, loading mass, fixture, lifting method and drop-height arrangement should be confirmed before quotation.
- The module itself is a standard-related loading interface; the compliance result depends on the complete test setup and post-test evaluation.

Technical Features and Applications

Front view

Side profile

Angled view

Core Technical Features

Feature	Description and customer value
IEC 60601-1 Figure 33 related design	Helps laboratories select a standard-related body upper-carriage module instead of using a general foam pad or ordinary weight block.
Foam contact structure	Provides a defined upper-body contact interface for dynamic loading on patient or operator support surfaces.
Dynamic loading test support	Suitable for IEC 60601-1 Clause 9.8.3.3 related evaluation of support structures exposed to sitting, standing, patient handling or impact-like loading.
Configuration to be confirmed	Reservoir, loading mass, support fixture and lifting method can be discussed to avoid confusion between module-only supply and complete loading arrangements.
Laboratory setup compatibility	Can be used with an existing laboratory fixture or discussed as part of a complete medical bed load and impact test solution.

Typical Test Objects

- Medical beds and adjustable patient support platforms
- Examination tables, treatment tables and patient transfer support surfaces
- Treatment chairs, dental chairs, dialysis chairs and patient seating equipment
- Other ME equipment structures that support or suspend a patient or operator during normal use

Technical Inquiry and Configuration Support

KingPo supplies the IEC 60601-1 Figure 33 Body Upper-Carriage Module for laboratories and manufacturers requiring a standard-related dynamic loading interface. Before quotation, the test object, safe working load and required configuration should be reviewed so the supplied item matches the laboratory setup.

Please Confirm Before Ordering

- Applicable standard edition: IEC 60601-1 Figure 33 / Clause 9.8.3.3 or internal procedure
- Test object: medical bed, examination table, treatment chair, patient support platform or other ME equipment structure
- Support position: sitting area, lying surface, suspension support, adjustable section or other loading area
- Safe working load and required loading mass for the equipment under test
- Required configuration: module only, module with reservoir, loading mass, fixture or complete loading arrangement
- Documentation needs: dimensional confirmation, inspection report, user manual or calibration-related document if required

Product Page QR

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KingPo Support Scope

- Standard-related module selection and dimensional confirmation for IEC 60601-1 Figure 33 applications
- Configuration discussion for reservoir, loading mass, fixture and complete dynamic loading arrangements
- Technical communication for laboratories, certification bodies, medical bed manufacturers and R&D teams

Contact KingPo

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Please provide your equipment type, test standard, required configuration and documentation needs for a faster quotation.