

BUREAU OF INDIAN STANDARDS
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IS XXXX : 2025
ISO 5363 : 2024
July 2025

भारतीय मानक मसौदा

रोबोटिक्स — बहिःकंकाल-प्रकार के चलने वाले आर.ए.सी.ए रोबोट के लिए परीक्षण विधियाँ

Draft Indian Standard

Robotics — Tests Methods for Exoskeleton-type Walking RACA Robot

ICS 11.180.10

Industrial Automation Systems and Robotics Sectional Committee, PGD 18	Last date for Comment: 08 August, 2025
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This Indian Standard which is identical with ISO 5363 : 2024 ‘Robotics — Tests methods for exoskeleton-type walking RACA robot’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Industrial Automation Systems and Robotics Sectional Committee and approval of the Production and General Engineering Division Council.

When IEC 80601-2-78:2019 ‘Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation’ was published there were no specific test methods to verify the conformity with the standard. This document was developed to supplement IEC 80601-2-78:2019 by specifying test methods to evaluate powered exoskeleton-type walking RACA robots.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated.

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
IEC 60601-1 : 2005 + Amd1 : 2012 + Amd2 : 2020 Medical electrical equipment — Part 1: General requirements for basic safety and essential performance	IS 13450 (Part 1) : 2024 Medical electrical equipment: Part 1 General requirements for basic safety and essential performance	Modified with IEC 60601-1 : 2020

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*).’ The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.