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Earth-moving machinery — Dumper bodies — Volumetric rating

AS ISO 6483:2021

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Institute of Instrumentation, Control & Automation Australia
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Earth-moving machinery — Dumper bodies — Volumetric rating

First published as AS ISO 6483:2021.

Preface

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment.

The objective of this document is to specify a procedure for approximating the volume of typical materials carried in dumper bodies. The volumes are based on the inside dimensions of the bodies and representative volumes on top of the bodies.

This rating method is intended to be a consistent means of comparing body capacities; it is not intended to define actual capacities that might be observed in any specific application.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6483 was developed by Technical Committee ISO/TC 127, *Earth moving machinery*, and was circulated to the member bodies in August 1979.

It has been approved by the member bodies of the following countries **:**

Australia	France	Spain
Austria	Germany, F. R.	Sweden
Belgium	Ireland	Switzerland
Bulgaria	Italy	United Kingdom
Canada	Japan	USA
Czechoslovakia	Poland	USSR
Egypt, Arab Rep. of	Romania	
Finland	South Africa, Rep. of	

No member body expressed disapproval of the document.

Australian Standard®

Earth-moving machinery — Dumper bodies — Volumetric rating

1 Scope and field of application

This International Standard specifies a procedure for approximating the volume of typical materials carried in dumper bodies. The volumes are based on the inside dimensions of the bodies and representative volumes on top of the bodies. This rating method is intended to be a consistent means of comparing body capacities; it is not intended to define actual capacities that might be observed in any specific application.

2 Reference

ISO 7132, *Earth-moving machinery — Dumpers Terminology.*[1)]

3 Definitions

3.1
body
that portion of a dumper in which material is carried. See figures 1 and 2. Surfaces whose function is to protect against personal injury or machine damage are not to be considered as carrying surfaces for this analysis.

3.2
bottom dumper
dumper which discharges material by opening its bottom.

3.3
rear dumper
dumper which discharges material in a rearward direction parallel to its longitudinal axis.

3.4
side dumper
dumper which discharges material in a direction perpendicular to its longitudinal axis.

4 Volumetric ratings

4.1 The body shall be positioned as it would be if it were fully lowered on a machine on a horizontal surface with all tyres at their recommended pressure.

4.2 Any load retaining or ejecting device shall be positioned to give maximum volumetric capacity. This position must be within the device's normal operating range.

4.3 Boundaries of the struck volume

4.3.1 The interior surfaces of the body — bottom, sides, ejection or retention device.

4.3.2 For bodies that have an open end over which material moves when discharged, the volume shall be limited by a plane passing through the rear-most edge of the open end and top rear corners of the side plates or at a slope of 1 : 1 extending upward and inward from the rear-most edge of the open end;

1) At present at the stage of draft.