



SURFACE VEHICLE RECOMMENDED PRACTICE

J2752™

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Superseded by ISO 20474-15

Personnel Protection - Compact Tool Carriers

RATIONALE

This document will be cancelled and superseded by ISO 20474-15.

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Documents

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1. SCOPE

This SAE Recommended Practice applies to compact tool carriers sometimes called, but not limited to mini-loaders, mini skid-steer loaders or compact utility loaders. Machines having a seated-operator position are excluded from this standard. However, certain attachments for a compact tool carrier may provide a seated-operator position for the operation of the attachment.

1.1 Purpose

This SAE Recommended Practice is intended to provide personnel protection guidelines for compact tool carriers.

This document is intended as a guide towards standard practice, but may be subject to frequent change to keep pace with experience and technical advances. This document provides performance criteria for newly designed compact tool carriers.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 ISO Publications

Available from American National Standards Institute, 25 West 43rd Street, New York, NY 10036-8002, Tel: 212-642-4900, www.ansi.org.

ISO 2867	Earth-moving machinery – Access systems
ISO 3411	Earth-moving machinery – Human physical dimensions of operators and minimum operator space envelope
ISO 3450	Earth-moving machinery – Braking systems of rubber-tyred machines – Systems and performance requirements and test procedures

ISO 3457	Earth-moving machinery – Guards – Definitions and requirements
ISO 6405-1	Earth-moving machinery – Symbols for operator controls and other displays – Part 1: Common symbols
ISO 6405-2	Earth-moving machinery – Symbols for operator controls and other displays – Part 2: Specific symbols for machines, equipment and accessories
ISO 6682	Earth-moving machinery – Zones of comfort and reach for controls
ISO 6750	Earth-moving machinery – Operator's manual – Content and format
ISO 9244	Earth-moving machinery – Safety signs and hazard pictorials – General principles
ISO 10265	Earth-moving machinery – Crawler machines – Performance requirements and test procedures for braking systems
ISO 10533	Earth-moving machinery – Lift-arm support devices
ISO 10968	Earth-moving machinery – Operator's controls
ISO 12508	Earth-moving machinery – Operator station and maintenance areas – Bluntness of edges
ISO 15817	Earth-moving machinery – Safety requirements for remote operator control
ISO 17063	Earth-moving machinery – Braking systems of pedestrian-controlled machines – Performance requirements and test procedures

2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

ISO 6165	Earth-moving machinery – Basic types – Identification and terms and definitions
ISO 14397-1	Earth-moving machinery – Loaders and backhoe loaders – Part 1: Calculation of rated operating capacity and test method for verifying calculated tipping load

3. DEFINITIONS

3.1 COMPACT TOOL CARRIER

A self-propelled crawler or wheeled machine having an operating mass of less than 1500 kg with a rigid frame, having either a walk-behind operator position or standing operator platform at the rear of the machine and having either front-mounted interchangeable equipment or lift arms with an attachment bracket capable of coupling to interchangeable, front-mounted attachments.

3.2 EQUIPMENT

A set of components mounted onto the base machine that allows an attachment to perform the primary design function of the machine, e.g., lift arms.

3.2.1 Interchangeable Equipment

Equipment that can be added to and removed from the base machine to change the primary design function of the machine.

3.3 ATTACHMENT

An assembly of components that can be mounted onto the base machine or equipment for a specific use.

3.3.1 Load Carrying Attachment

An attachment that during its normal use would contain or support a payload, e.g., bucket, pallet fork, sweeper bucket, grapple fork, etc.

3.3.2 Non-load Carrying Attachment

An attachment that during its normal use would not contain or support a payload, e.g., auger, blade, trencher, mower, breaker, tiller, snow blower, soil conditioner, etc.

3.4 EQUIPMENT AND/OR ATTACHMENT BRACKET

A device to facilitate quick interchange of equipment or attachments.

3.5 GUARD

A barrier that is intended to prevent inadvertent contact with a potential hazard during normal operation and servicing.

3.5.1 Guarding by Location

A means of preventing inadvertent contact with a hazardous component or with the operator's control(s) by having the component or control(s) outside the reach of a large operator, as described in ISO 3411, when in the operating position as described by the manufacturer.

3.6 NORMAL OPERATION

The reasonable use of the compact tool carrier by a trained person using attachments as approved by the compact tool carrier manufacturer.

3.7 MAINTENANCE

A service operation performed in accordance with the operator's manual, service manual or machine sign.

3.8 OPERATOR POSITION

The location of the operator designated by the compact tool carrier manufacturer.

3.9 OPERATOR PLATFORM

The surface provided for a standing, ride-on operator to operate the compact tool carrier.

3.10 GROUND-SUPPORTED OPERATOR PLATFORM

An operator platform with a trail wheel(s) or skid surface that pivots about a horizontal axis to allow the trail wheel(s) or skid surface to follow the contour of the ground.

3.11 MAXIMUM REACH

The position of the equipment and attachment that results in the maximum horizontal distance between the load center of gravity and the front tipping line of the compact tool carrier