

DRAFT AMENDMENT ISO 3691-2:2016/DAM 2

ISO/TC 110/SC 2

Secretariat: SIS

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Industrial trucks — Safety requirements and verification —

Part 2: Self-propelled variable-reach trucks AMENDMENT 2

Chariots de manutention — Exigences de sécurité et vérification —

Partie 2: Chariots automoteurs à portée variable

AMENDEMENT 2

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ICS: 53.060

[ISO 3691-2:2016/DAm1](#)

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This document was prepared by Technical Committee ISO/TC 110, *Industrial trucks*, Subcommittee SC 2 *Safety of powered industrial trucks*. [ISO 3691-2:2016/DAmD 1](https://standards.iteh.ai/catalog/standards/sist/b90e4385-4a23-42d8-9999-150493085c69/iso-3691-2-2016/dam-2)

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Part 2: Self-propelled variable-reach trucks

AMENDMENT 2

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6.2.2 Operation of truck

Add bullet cc) to the list of specified information that shall be included, as applicable, in the instruction handbook(s):

cc) Information or instructions regarding modification of the truck, which may introduce hazards or risks not considered by manufacturers and can invalidate the existing truck risk assessments

6.2.7 Truck modification

Delete entire Clause 6.2.7. Replace with;

6.2.7 Truck modification

Truck modification is subject to regional requirements; see ISO/TS 3691-8.

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Annex A (informative)

Relationship between this European Standard and the essential requirements of Directive 2006/42/EC aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/396 to provide one voluntary means of conforming to essential requirements of Directive 2006/42/EC Machinery.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 2006/42/EC

Essential Requirement of Directive	Clause(s)/ subclause(s) of this EN	Remarks/Notes
1.1.2. Principles of safety integration	4.1.1	
1.1.3. Materials and products	4.1, 4.5, 4.6, 4.11.2	
1.1.4. Lighting	6.2.2	
1.1.5. Design of machinery to facilitate its handling	4.12, 6.2	
1.1.6. Ergonomics	4.7, 4.11, 6.2	
1.1.7. Operating positions	4.5, 4.11	
1.1.8. Seating	4.7.2	
1.2.1. Safety and reliability of control systems	4.3, 4.4.2, 4.4.3, 4.4.4	
1.2.2. Control devices	4.4.1, 4.4.3, 4.4.4, 6.3.1.3	
1.2.3. Starting	4.2, 4.4	
1.2.4.1. Normal stop	4.3, 4.4.2	
1.2.4.2. Operational stop		Not covered
1.2.6. Failure of the power supply	4.3.2, 4.4.3, 4.6.3	
1.3.1. Risk of loss of stability	4.4.5, 4.8	
1.3.2. Risk of break-up during operation	4.5, 4.6, 5.2	
1.3.3. Risks due to falling or ejected objects	4.7.5, 4.9.1, 4.9.2	
1.3.4. Risks due to surfaces, edges or angles	4.1.4	
1.3.5. Risks related to combined machinery	6.3.1.2	
1.3.6. Risks related to variations in operating conditions	4.1.2, 4.1.3, 6.2.2	
1.3.7. Risks related to moving parts	4.5.4.1, 4.7.7	
1.3.8.1. Moving transmission parts	4.1.1, 4.7.7	
1.3.8.2. Moving parts involved in the process	4.2.1, 4.7.7	
1.3.9. Risks of uncontrolled movements	4.2.2, 4.6.2, 4.6.7.1, 4.6.7.2	
1.4.1. General requirements		Not covered
1.4.2.1. Fixed guards	4.11.2	
1.4.2.2. Interlocking movable guards		Not covered

Table ZA.1 (continued)

Essential Requirement of Directive	Clause(s)/ subclause(s) of this EN	Remarks/Notes
1.4.2.3. Adjustable guards restricting access		Not covered
1.5.1. Electricity supply	4.9.5	
1.5.2. Static electricity		Not covered
1.5.3. Energy supply other than electricity	4.5	
1.5.4. Errors of fitting	4.1.6, 6.2.5	
1.5.5. Extreme temperatures	4.5, 4.7.6	
1.5.6. Fire	4.5, 4.5.5, 4.11	
1.5.7. Explosion	4.5.5	
1.5.8. Noise		Not covered
1.5.9. Vibrations		Not covered
1.5.10. Radiation		Not covered
1.5.11. External radiation		Not covered
1.5.12. Laser radiation		Not covered
1.5.13. Emissions of hazardous materials and substances	4.5, 4.5.3	
1.5.14. Risk of being trapped in a machine	4.11.2, 4.11.10	
1.5.15. Risk of slipping, tripping or falling	4.7.4	
1.6.1. Machinery maintenance	4.5.4.3, 4.9.5, 6.2.3, 6.2.5	
1.6.2. Access to operating positions and servicing points	4.5.4, 4.9.5, 6.2.5	
1.6.3. Isolation of energy sources	4.1.6, 4.5.5, 6.3.4.4	
1.6.4. Operator intervention	4.7.7.3	
17.1. Information and warnings on the machinery	6.3	
1.7.1.1. Information and information devices	6.2.2, 6.3.1.3	
1.7.1.2. Warning devices	4.9.4	
1.7.2. Warning of residual risks	6.2.2	
1.7.3. Marking of machinery	6.3	
1.7.4. Instructions	6.1, 6.3.4	
1.7.4.1. General principles for the drafting of instructions	6.1, 6.2	
1.7.4.2. Contents of the instructions	4.6.7.6, 4.8.3, 6	
1.7.4.3. Sales literature		Not covered
3.2.1. Driving position	4.7.5, 4.11	
3.3. Control systems	4.2	
3.2.2. Seating	4.7.2, 4.7.3	
3.2.3. Positions for other persons	4.4.1.2	
3.3.1. Control devices	4.2.2, 4.4	
3.3.2. Starting/moving	4.2	
3.3.3. Travelling function	4.3	
3.3.5. Control circuit failure	4.4.3.2	
3.4.1. Uncontrolled movements	4.4.5, 4.8, 5.2	
3.4.2. Moving transmission parts	4.5.4	
3.4.3. Roll-over and tip-over	4.4.5, 4.8, 4.9.3	
3.4.4. Falling objects	4.9.1, 4.9.2	