

# DIN EN 1459-4:2021-04 (E)

## Rough-terrain trucks - Safety requirements and verification - Part 4: Additional requirements for variable-reach trucks handling freely suspended loads

Contents	Page
European foreword .....	3
Introduction .....	4
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	6
4 Safety requirements and/or protective/risk reduction measures .....	7
4.1 General .....	7
4.1.1 Context .....	7
4.1.2 Specific relation to EN 1459-1 and EN 1459-2 .....	7
4.2 Stability .....	8
4.2.1 Load chart for suspended load lifting attachment(s) .....	8
4.3 Connection point for lifting accessories .....	8
4.3.1 General .....	8
4.3.2 Maximum rated load lifting capacity .....	8
4.3.3 Strength of the connection point for lifting accessories .....	8
4.4 Dynamic structural integrity .....	8
5 Verification of safety requirements and/or protective/risk reduction measures .....	8
5.1 Tests for trucks and for lifting attachments .....	8
5.2 Dynamic structural test .....	9
5.2.1 General .....	9
5.2.2 General test set up .....	9
5.2.3 Test procedure .....	10
5.2.4 Acceptance criteria .....	11
5.3 Additional requirements for pick and carry .....	11
5.3.1 General .....	11
5.3.2 Lateral test procedure .....	11
5.3.3 Longitudinal stability by test loading .....	12
5.3.4 Acceptance criteria .....	12
5.4 Strength tests for the connection point for lifting accessories .....	13
6 Information for use .....	13
6.1 General .....	13
6.2 Instruction handbook .....	13
6.3 Load chart .....	14
6.3.1 Load chart for lifting attachments .....	14
6.3.2 Load chart for connection point for lifting accessories .....	14
6.3.3 Marking .....	14
Annex A (informative) List of significant hazards .....	15
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC on machinery .....	17
Bibliography .....	22