

ISO 19472-2:2022-01 (E)

Machinery for forestry - Winches - Part 2: Traction aid winches

Contents

	Page
Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms, definitions and symbols	3
3.1 Terms and definitions	3
3.2 Symbols	7
4 Safety requirements for traction aid winches	7
4.1 General	7
4.2 Design	8
4.2.1 Modes of operation	8
4.2.2 Anchor monitoring	8
4.2.3 Mechanical safety and stability	8
4.3 Rope drive	8
4.3.1 General	8
4.3.2 Steel wire ropes	9
4.3.3 Rope end connectors	10
4.4 Attachment points at the supported machine for use with remote traction aid winches	10
4.5 Combination of the supported machine with the traction aid winch system	10
4.6 Brake systems	11
4.7 Electrical safety	11
4.8 Energy supply	11
4.9 Operator controls, starting and stopping	11
4.10 Emergency stop	12
4.11 Control system	12
4.11.1 General	12
4.11.2 Operation mode control	12
4.11.3 Remote control system	13
4.11.4 Safety relevant functions	13
4.12 Additional requirements for removable traction aid winches of both integrated traction aid winches removable installation and the remote traction aid winches removable from their anchor machines	13
4.13 Additional requirements for remote traction aid winches	14
4.14 Noise emissions	15
4.15 Vibration	15
4.16 Fire risks	15
4.17 Maintenance	16
4.18 Access system	16
4.19 Tie down and machine lifting devices	16
5 User information	16
5.1 General	16
5.2 Special requirements	17
5.3 Hazard zones	19
6 Marking	19
Annex A (normative) Hazard zones	21
Annex B (normative) Rope arrangement for proper spooling	24

Annex C (informative) List of significant hazards.....	25
Annex D (normative) Noise test code.....	27
Annex E (informative) Aspects of operating traction aid winches.....	30
Annex F (informative) Example machine safety label (ISO 15817:2012).....	36
Annex ZA (informative) Relationship between this European Standard and the essential Requirements of EU Directive 2006/42/EC aimed to be covered.....	37
Bibliography	40