DIN EN ISO 11850:2016-06 (E)

Machinery for forestry - General safety requirements (ISO 11850:2011 + Amd 1:2016) (includes Amendment :2016)

Contents

Page

Foreword to EN ISO 11850:2011 4

A1 European foreword to EN ISO 1850:2011/A1:2016 A1 5

Introduction 6

1 Scope 7

2 Normative references 7

3 Terms and definitions 9

4 Safety requirements and/or protective measures 9
4.1 General 9
4.2 Safety distances, guards, shields 10
4.3 Operator station 10
4.3.1 Operator space envelope 10
4.3.2 Structures for operator protection 10
4.3.3 Seat 12
4.3.4 Seat belt 12
4.4 Access to operator's station and maintenance locations 12
4.5 Controls 13
4.5.1 Starting 13
4.5.2 Engine stop control 14
4.5.3 Other controls 14
4.5.4 Warning alarm 15
4.5.5 Safety and reliability of electronic control systems 15
4.5.6 Emergency attachment lowering 15
4.6 Visibility 15
4.7 Lighting 16
4.7.1 Instrument and monitor lights 16
4.7.2 Operator station and maintenance lighting 16
4.8 Braking systems 16
4.9 Steering systems 16
4.10 Retrieval, tie-down and machine-lifting devices 16
4.11 Stability 17
4.12 Automatic processing systems 17
4.13 Electromagnetic compatibility 17
4.14 Fire risks 17
4.15 Noise 18
4.15.1 Noise reduction by design at source and by protective measures 18
4.15.2 Verification 18
4.16 Vibration 18
4.16.1 Vibration reduction by design at source and by protective measures 18
4.16.2 Verification 19
4.17 Storage places 19
4.18 Maintenance 19
4.19 Winches 19
4.20 Hydraulic systems 19

5 Information for use 20
5.1 Operator's manual 20
5.2 Marking 21
5.3 Safety signs 22
Annex A (informative) List of significant hazards 24
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC 25
Bibliography 26