ISO 5395:1990-10 (E)

Power lawn-mowers, lawn tractors, lawn and garden tractors, professional mowers, and lawn and garden tractors with mowing attachments; definitions; safety requirements and test procedures

Contents

Page

Section 1 General 1
1.1 Scope 1
1.2 Normative references 1
1.3 Definitions 2

Section 2 Basic requirements 5
2.1 Application 5
2.2 Safety protection 5

Section 3 Requirements for rotary mowers 10
3.1 Application 10
3.2 General construction 10
3.3 Test procedures 12
3.4 Pedestrian-controlled machines; additional requirements 22
3.5 Ride-on (riding) machines; additional requirements 24
3.6 Towed units: requirements 25
3.7 Professional (commercial) mowers and turf care equipment: additional requirements 26

Section 4 Requirements for cylinder mowers 27
4.1 Applications 27
4.2 General construction; guarding and shielding 27
4.3 Thrown grass, thrown objects, operator safety 27
4.4 Pedestrian-controlled machines; requirements 27
4.5 Ride-on (riding) machines; requirements 30
4.6 Towed units; requirements 30
4.7 Professional (commercial) mowers and turf care equipment: additional requirements 30

Annexes

A Guarding principles 31
A.1 Safety distance from dangerous parts 31
A.2 Round reach 31
A.3 Reaching in and through elongated openings with parallel sides 33
A.4 Reaching in and through Square or circular apertures 34
A.5 Openings of irregular shape 34

B Test enclosure 35
B.1 Base 35
B.2 Target composition 35

C Corrugated fibreboard penetration tests on rotary mowers; test enclosure wall panels 38
C.1 Purpose 38
C.2 Test fixture 38
C.3 Fibreboard samples 38
C.4 Procedure 38
C.5 Recommended acceptance criteria 38

D Specimen test report of thrown object test 40
D.1 Target elevation areas 40
D.2 Data sheet 40
D.3 Test acceptance (pass/fail criteria) 40

E Safety Instructions for rotary mowers: pedestrian and ride-on, cylinder mowers; pedestrian and ride-on 42
E.1 Safe Operation practices for walk-behind rotary mowers 42
E.2 Safe Operation practices for ride-on (riding) rotary mowers 43
E.3 Safe operation practices for walk-behind cylinder mowers 44
E.4 Safe operation practice for ride-on (riding) cylinder mower machines 45

F Bibliography 46