

Australian Standard[®]

Ride-on lawn mowers

**Part 1: Powered rotary ride-on
mowers**

This Australian Standard was prepared by Committee CS/33, Power Lawnmowers and Edge Trimmers. It was approved on behalf of the Council of Standards Australia on 27 June 1990 and published on 12 November 1990.

The following interests are represented on Committee CS/33:

Attorney-General's Department
Australian Federation of Consumer Organizations
Business and Consumer Affairs, N.S.W.
Confederation of Australian Industry
Department of Public and Consumer Affairs, S.A.
Local Government Association of New South Wales
Metal Trades Industry Association of Australia
Mower Specialists Association of Australia
National Safety Council of Australia (Federal Secretariat)
Outdoor Power Equipment Association
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PREFACE

This Standard was prepared by the Standards Australia Committee on Power Lawnmowers and Edge Trimmers in response to a request from a manufacturer of ride-on lawnmowers. This request was for a Standard establishing safety requirements for ride-on mowers with emphasis on safety for the user and bystander.

The Standard is based on AS 2657—1985 with additional requirements being taken from ISO/DP 5395 to cater for the ride-on characteristics.

It forms Part 1 of a series on ride-on lawnmowers. The powered rotary type of ride-on mower covered by this Standard accounts for the majority of ride-on mowers purchased for domestic use.

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STANDARDS AUSTRALIA

Australian Standard
Ride-on lawnmowers

Part 1: Powered rotary ride-on mowers

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE This Standard specifies design and performance requirements relating to the safety of powered rotary lawnmowers of the ride-on type up to a size limit of 1250 mm width of cut.

This Standard does not apply to lawn trimmers, lawn edge trimmers, and edgers, flail mowers, sickle-bar mowers or mowers with a width of cut greater than 1250 mm.

NOTE: Requirements for powered rotary lawnmowers of the walk-behind type are specified in AS 2657.

1.2 REFERENCED DOCUMENTS The documents below are referred to in this Standard:

AS	
2657	Powered rotary lawnmowers
2953	Earth-moving machinery — Human dimensions
2953.2	Part 2: Physical dimensions of operators and minimum operator space envelope
3156	Approval and test specification — Electric lawnmowers
ISO	
3304	Plain end seamless precision steel tubes — Technical conditions for delivery
3305	Plain end welded precision steel tubes — Technical conditions for delivery
3306	Plain end as-welded and sized precision steel tubes — Technical conditions for delivery
3767	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment— Symbols for operator controls and other displays
3767.1	Part 1: Common symbols
3767.2	Part 2: Symbols for agricultural tractors and machinery
3767.3	Part 3: Symbols for powered lawn and garden equipment
4200	Plain end steel tubes, welded and seamless — General tables of dimensions and masses per unit length

1.3 DEFINITIONS For the purpose of this Standard, the definitions below apply.

1.3.1 Blade tip circle—the path described by the outermost point of the cutting edge of the cutting blades as it rotates about its shaft axis.

1.3.2 Blades—the mechanism used to provide the cutting action of a power lawnmower including both metal and non-metal cutting means.

1.3.3 Cutting area of the blades—the area of the blades which lies in the annulus between the blade tip circle and a concentric circle which has a diameter which is 80 percent of that of the blade tip circle (see Figure 1).

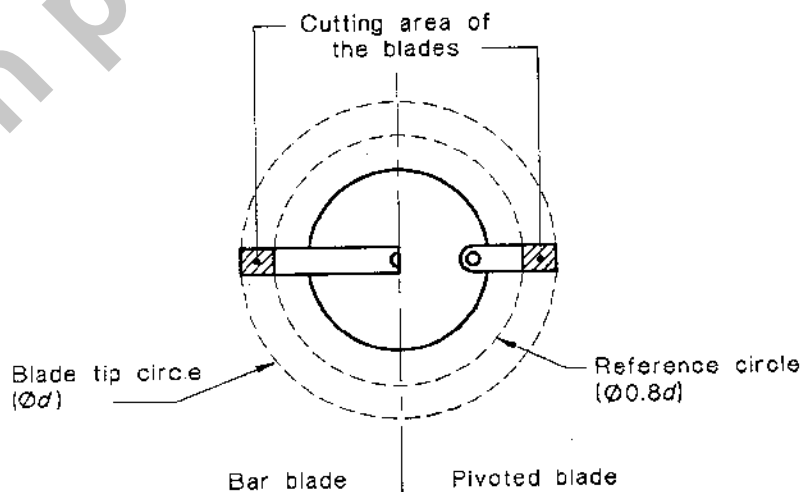


FIGURE 1 CUTTING AREA OF THE BLADES