

Blade Tip GEOMETRY

TIP

What part of a lawn mower blade cuts the grass?

Rotary lawn mower blades are measured from tip to tip, and the tip of the blade does the majority of the cutting work. Repeated observation of worn cutting edges shows that the first inch does the majority of the cutting work. To produce a cutting tip, three relief angles are necessary.

IMPORTANT NOTES:

Welding, straightening, sharp corners, and overheating the lawn mower blade may create fractures that break the blade under normal use and may cause injury.

A lawn mower blade is like a circular saw blade in the way it cuts - the two tips are the cutting teeth.

A lawn mower blade may be in the shape of a rectangle, however, when it is in motion it acts as a disc.

Description	Diagram
<p>Relief Angle One: Top view - built into the blade (generally 2-5 degrees)</p>	
<p>Relief Angle Two: End view - To be re-sharpened (industry average is 30°)</p>	
<p>Relief Angle Three: End view - built into the blade</p>	<p>Generally 0° Optimum</p>
<p>Top View of Blade Landside: Worn Blade Edge Worn away bottom surface at tip. As shown, is a sign of poor blade maintenance. The blade will tear the grass, resulting in a poor looking lawn.</p>	<p>No Tip = Dull</p>

