


# Profile Dimension Advanced Tool User Manual

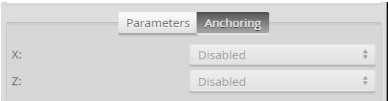
## 1. General introduction

The Dimension tool provides Width, Height, Distance, Center X, and Center Z measurements.


## 2. Parameters

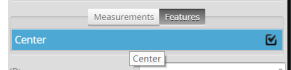
Feature1 Feature2	<p>The <b>Feature 1</b> and <b>Feature 2</b> settings represent the two features the tool uses to perform measurements. For each, one of the following:</p> <ul style="list-style-type: none"> <li>• Max Z</li> <li>• Min Z</li> <li>• Max X</li> <li>• Min X</li> <li>• Corner</li> <li>• Average</li> <li>• Rising Edge</li> <li>• Falling Edge</li> <li>• Any Edge</li> <li>• Top Corner</li> <li>• Bottom Corner</li> <li>• Left Corner</li> <li>• Right Corner</li> <li>• Median</li> </ul>	
Region1 Region2	<p>To set the region of a feature, adjust it graphically in the data viewer, or expand the feature using the expand button (⋮) and enter the values in the fields</p>	

## 3. Anchor

X,Z	<p>Lets you choose the X, or Z measurement of another tool to use as a positional anchor for this tool.</p>	
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## 4. Measurements and Features

Measurements	Width	<p>Determines the difference along the X axis between two feature points.</p> <p>The difference can be calculated as an absolute or signed result. The difference is calculated by:</p> $Width = Feature\ 2_{x\ position} - Feature\ 1_{x\ position}$	
	Height	<p>Determines the difference along the Z axis between</p>	

		<p>two feature points.</p> <p>The difference can be expressed as an absolute or signed result. The difference is calculated by:</p> $Height = Feature\ 2_{Z\ position} - Feature\ 1_{Z\ position}$	
	Distance	Determines the direct, Euclidean distance between two feature points.	
	Center X	Finds the average location of two features and measures the X axis position of the average location	
	Center Z	Finds the average location of two features and measures the Z axis position of the average location.	
Features	Center	The middle point of the two feature points	

## 5. Application Example