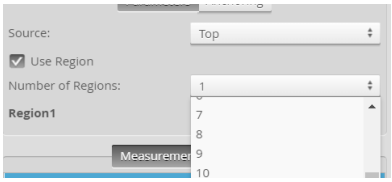
LMI TECHNOLOGIES

Profile Ellipse Tool User Manual

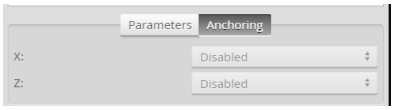
1. General introduction

Fit an ellipse using least square method based on chosen points under both Uniform Profile and Point Cloud Profile scan modes.

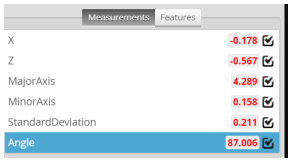
2. Parameters

Use Region	If not chosen, all points will be used to determine the bounding box. Otherwise, only points within user-configured regions will be involved	
Number of Regions	Up to 16 regions can be configured to choose points to fit the ellipse.	

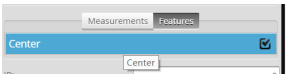
3. Anchor

X,Z	Lets you choose the X, or Z measurement of another tool to use as a positional anchor for this tool.	

4. Measurements and Features

Measurements	X	Determines the X position of the center of the bounding box that contains the part.	
	Z	Determines the Z position of the center of the bounding box that contains the part.	
	MajorAxis	Length of the ellipse along major axis	
	MinorAxis	Length of the ellipse along minor axis	
	StandardDeviation	Standard deviation for points involved in fitting ellipse from the center point	
	Angle	Determines the rotation around the Y	

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		axis and the angle of the minor axis relative to the X axis.	
Features	Center	The center point of the ellipse	

5. Application Example