Rotary Engine compression finder : R.A.Rowley Ver161209

Housing Major Axis mm	**166.2**	find R	71.5	from major & minor axis
Housing Minor Axis mm	**119.8**	find e	11.6	from major & minor axis
Number of Rotors	**1**	example only		
Generating Radius R	**71.5**	71.5 mm		
Eccentric Throw	**11.6**	11.6 mm		
Housing Width	**68.2**	68.2 mm		
Radial Flank clearance	0.5	0.50 mm		
Width clearance total)	0.15	0.15 mm		
Plug recess Volume cc	1.00	1.00 cc say		
Pocket Volume cc	15	15cc=9.1 to 1		
Swept Volume cc	294	FIMvol=	441	cc (1.5 time greater than actual)
Compression Ratio CR	**9.1 to 1**			

If you are a race official you need only measure 3 dimensions on a Rotary to check Swept Volume against stated, measurement errors of 1mm will have little effect, so a dial calliper will give acceptable trackside results. (1mm radial oversized housing increases SV by 2cc

The width is more important and we take the width at the inlet zone as this is less likely to have distorted in use, for build clearance we would use the narrowest Housing width, normally the Hot side.