

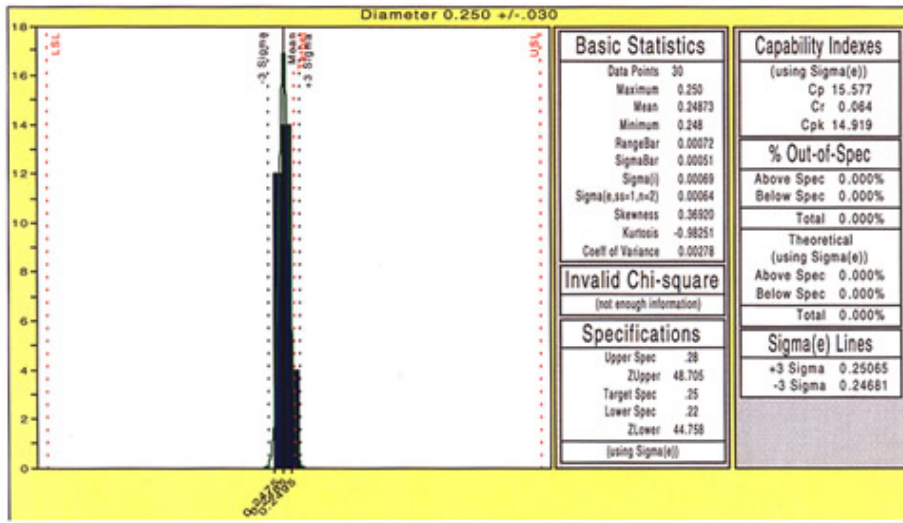


Reliability Testing  
 STATISTICAL PROCESS CONTROL

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SPC of Dimensional Results



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Gage Repeatability and Reproducibility

GAGE REPEATABILITY AND REPRODUCIBILITY DATA SHEET (Long Method)												
Operator:	A - Mai				B - Hector				C - Randall			
Sample #	1st Trial	2nd Trial	3rd Trial	Range	1st Trial	2nd Trial	3rd Trial	Range	1st Trial	2nd Trial	3rd Trial	Range
1	30.02	30.016	30.021	0.005	30.027	30.021	30.023	0.006	30.018	30.021	30.017	0.004
2	30.81	30.8	30.804	0.01	30.812	30.811	30.804	0.008	30.807	30.805	30.808	0.003
3	29.55	29.55	29.551	0.001	29.557	29.561	29.555	0.006	29.55	29.548	29.551	0.003
4	32.687	32.68	32.685	0.007	32.689	32.691	32.678	0.013	32.687	32.682	32.686	0.005
5	31.267	31.267	31.26	0.007	31.263	31.262	31.256	0.007	31.263	31.265	31.257	0.006
6	27.268	27.272	27.272	0.004	27.274	27.277	27.265	0.012	27.266	27.26	27.268	0.008
7	31.325	31.326	31.323	0.003	31.326	31.329	31.312	0.017	31.315	31.318	31.308	0.01
8	30.262	30.264	30.264	0.002	30.268	30.276	30.263	0.013	30.259	30.263	30.257	0.006
9	29.242	29.24	29.241	0.002	29.236	29.243	29.243	0.007	29.243	29.242	29.232	0.011
10	30.154	30.145	30.152	0.009	30.145	30.149	30.153	0.008	30.138	30.148	30.158	0.02
Totals	302.585	302.56	302.573	0.05	302.597	302.62	302.552	0.097	302.546	302.552	302.542	0.078
		302.585		Ra 0.005		302.597		Rb 0.0097		302.546		Rc 0.0078
		302.573				302.552				302.542		
	Sum	907.718			Sum	907.769			Sum	907.64		
	Xa	302.5727			Xb	302.5897			Xc	302.5467		

Ra	0.005
Rb	0.0097
Rc	0.0078
Sum	0.0225
R	0.0075

# Trials	D4
2	3.27
3	2.58

R x D4 = UCLr	0.0075	2.58	0.01935
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Max X	302.5897
Min X	302.5467
X Diff.	0.043

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