



## Gage R&R Repeatability & Reproducibility

Inch			
Measured Tolerance	Required Raw Repeatability		
	10%	20%	30%
.020"	.0006"	.0012"	.0018"
.010"	.0003"	.0006"	.0009"
.005"	.00015"	.0003"	.00045"
.002"	.00006"	.00012"	.00018"
.001"	.00003"	.00006"	.00009"
.0005"	.000015"	.00003"	.000045"
.0001"	.000003"	.000006"	.000009"
.00005"	.0000015"	.000003"	.0000045"
.00002"	.0000006"	.0000012"	.0000018"

Metric			
Measured Tolerance	Required Raw Repeatability		
	10%	20%	30%
0.50	0.0152	0.03	0.045
0.254	0.0076	0.0152	0.023
0.127	0.0038	0.0076	0.012
0.05	0.00152	0.0038	0.0045
0.025	0.00076	0.00152	0.0022
0.0127	0.00038	0.00076	0.0012
0.0025	0.000076	0.00015	0.00023
0.0012	0.000038	0.000076	0.00012
0.0005	0.000015	0.000038	0.000045

Shaded values not attainable in all gaging applications

