

Thickness Gauge R & R

Operator	Wafer									
	1	2	3	4	5	6	7	8	9	10
I	0.62	0.99	0.82	0.85	0.59	1.02	0.97	0.85	1.04	0.84
	0.66	1.00	0.81	0.89	0.48	1.03	0.97	0.82	1.05	0.80
II	0.53	1.05	0.80	0.83	0.39	1.04	0.97	0.73	0.98	0.54
	0.53	0.93	0.77	0.76	0.40	1.08	0.91	0.70	0.95	0.60
III	0.51	1.05	0.80	0.79	0.45	1.01	0.96	0.80	1.00	0.61
	0.55	1.02	0.77	0.81	0.49	1.05	0.96	0.81	1.00	0.70

Ranges for repeat measurements

Operator	Wafer									
	1	2	3	4	5	6	7	8	9	10
I	0.04	0.01	0.01	0.04	0.11	0.01	0.00	0.03	0.01	0.04
II	0.00	0.12	0.03	0.07	0.01	0.04	0.06	0.03	0.03	0.06
III	0.04	0.03	0.03	0.02	0.04	0.04	0.00	0.01	0.00	0.09

Means for repeat measurements

Operator	Wafer									
	1	2	3	4	5	6	7	8	9	10
I	0.64	0.995	0.815	0.870	0.535	1.025	0.97	0.835	1.045	0.820
II	0.53	0.990	0.785	0.795	0.395	1.060	0.94	0.715	0.965	0.570
III	0.53	1.035	0.785	0.800	0.470	1.030	0.93	0.805	1.000	0.655
R_M	0.11	0.045	0.030	0.075	0.140	0.035	0.04	0.120	0.080	0.250