

Flexure tests in optical lab with mahr gauges

with software control

6/14/01

Slider #4 mounted on 1" plate - tilt unclamped with "missing screws" installed - 3rd z-pad & clamp on right side

Clamp 5 set approx. 250 lb. - required 140 lb to close contact on hardpads at PA = 270

	Gauge 1	Gauge 7	Gauge 8	diff 1 - 7	diff 7 - 8
270	0	0	0	0	0
315	0	0	0	0	0
360	0.4	0.1	0.1	0.3	0
45	0.7	0.3	0.2	0.4	0.1
90	0.8	0.4	0.3	0.4	0.1
135	0.8	0.4	0.2	0.4	0.2
180	0.7	0.1	0.1	0.6	0
225	0.1	-0.1	0	0.2	-0.1
270	0.1	-0.1	0	0.2	-0.1
225	0.1	-0.1	0	0.2	-0.1
180	0.1	0.1	0.1	0	0
135	0.4	0.3	0.2	0.1	0.1
90	0.4	0.3	0.3	0.1	0
45	0.1	0.2	0.2	-0.1	0
360	0.5	0.1	0.2	0.4	-0.1
315	0.2	0	0.1	0.2	-0.1
270	0.2	-0.1	0	0.3	-0.1
	0.8	0.5	0.3	range	0.7
					0.3

	px 1 - 7 y flex.	px 7 - 8 x flex.
270	0.0	0.0
315	0.0	0.0
360	2.1	0.0
45	2.8	1.0
90	2.8	1.0
135	2.8	2.0
180	4.2	0.0
225	1.4	-1.0
270	1.4	-1.0
225	1.4	-1.0
180	0.0	0.0
135	0.7	1.0
90	0.7	0.0
45	-0.7	0.0
360	2.8	-1.0
315	1.4	-1.0
270	2.1	-1.0

max	4.2	2.0
min	-0.7	-1.0
total	4.9	3.0
assumed mirror		

