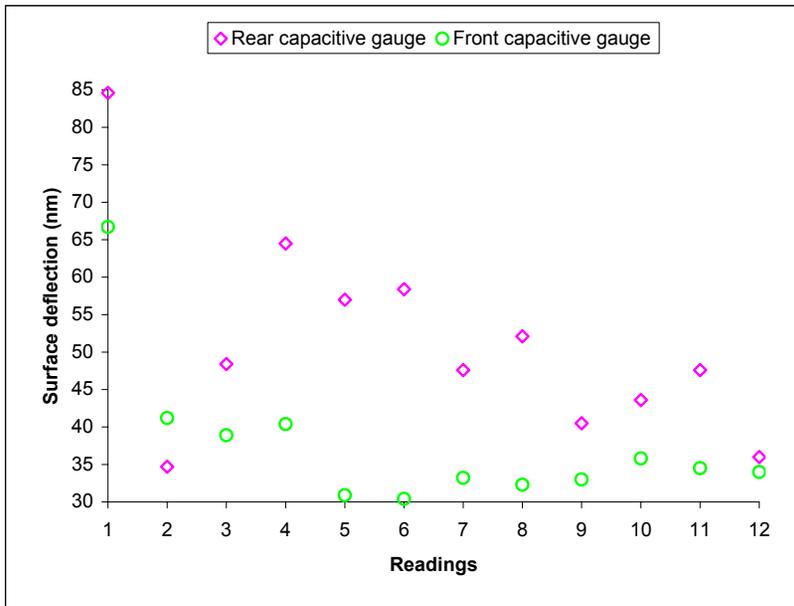


SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S1C SURFACE USING 15g DEAD-WEIGHT

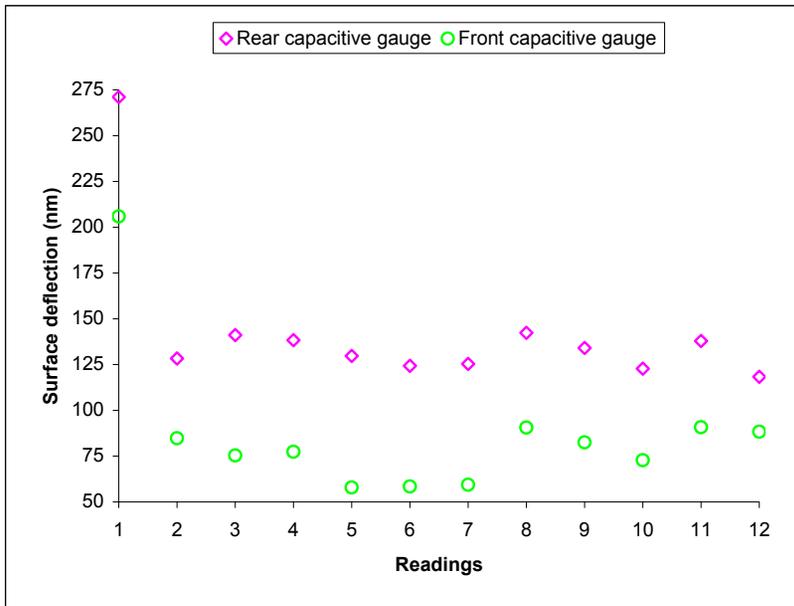
Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.31897	1.35383	6.50877	6.50331	6.46524	6.46120	9.639	84.6	66.7	75.7
2	1.33079	1.35405	6.50428	6.50204	6.46324	6.46074	6.431	34.7	41.2	38.0
3	1.33162	1.35483	6.50396	6.50084	6.46252	6.46016	6.418	48.4	38.9	43.7
4	1.33181	1.35508	6.50415	6.49999	6.46243	6.45998	6.434	64.5	40.4	52.5
5	1.33255	1.35535	6.50354	6.49986	6.46138	6.45951	6.304	57.0	30.9	44.0
6	1.33188	1.35489	6.50323	6.49946	6.46112	6.45928	6.362	58.4	30.4	44.4
7	1.33239	1.35488	6.50280	6.49973	6.46094	6.45893	6.219	47.6	33.2	40.4
8	1.33250	1.35560	6.50245	6.49909	6.46077	6.45881	6.387	52.1	32.3	42.2
9	1.33301	1.35616	6.50196	6.49935	6.46076	6.45876	6.401	40.5	33.0	36.8
10	1.33258	1.35573	6.50153	6.49872	6.46067	6.45850	6.401	43.6	35.8	39.7
11	1.33257	1.35618	6.50135	6.49828	6.46061	6.45852	6.528	47.6	34.5	41.1
12	1.33366	1.35593	6.50055	6.49823	6.46030	6.45824	6.158	36.0	34.0	35.0
								44.6	33.8	



RESULTS OF LAST SIX READINGS			
6.349	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	39.2
		<i>and its standard devia.</i>	2.7

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S1C SURFACE USING 35g DEAD-WEIGHT

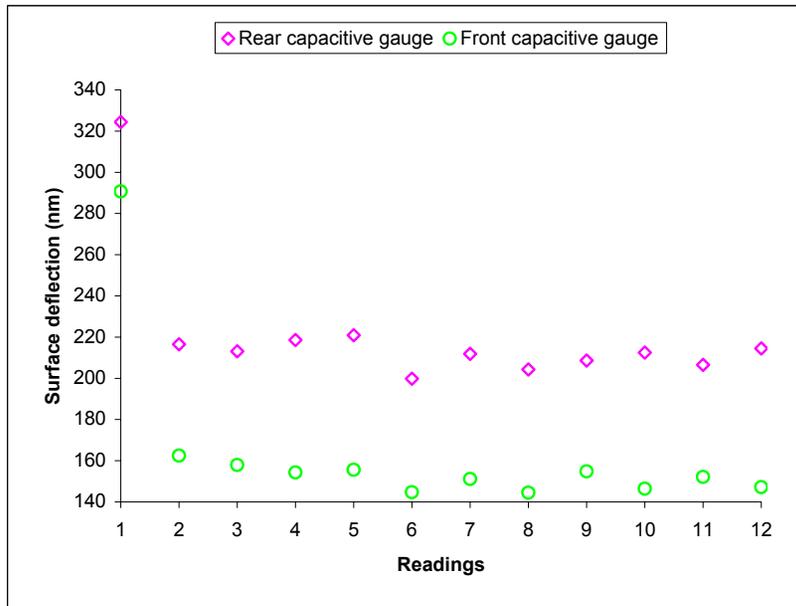
Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.31901	1.44546	6.53512	6.51763	6.49514	6.48266	34.964	271.1	205.9	238.5
2	1.36129	1.44627	6.52430	6.51602	6.48660	6.48146	23.497	128.3	84.8	106.6
3	1.36297	1.44766	6.52411	6.51501	6.48578	6.48121	23.417	141.1	75.4	108.3
4	1.36237	1.44590	6.52343	6.51451	6.48525	6.48056	23.096	138.3	77.4	107.9
5	1.36330	1.44569	6.52338	6.51501	6.48523	6.48172	22.781	129.7	57.9	93.8
6	1.36324	1.44637	6.52333	6.51531	6.48487	6.48133	22.986	124.3	58.4	91.4
7	1.36532	1.44641	6.52297	6.51488	6.48484	6.48124	22.421	125.4	59.4	92.4
8	1.36600	1.44739	6.52284	6.51366	6.48470	6.47921	22.504	142.3	90.6	116.5
9	1.36647	1.44700	6.52235	6.51370	6.48458	6.47958	22.267	134.1	82.5	108.3
10	1.36580	1.44712	6.52231	6.51439	6.48448	6.48007	22.485	122.8	72.8	97.8
11	1.36592	1.44704	6.52192	6.51302	6.48453	6.47903	22.430	137.9	90.8	114.4
12	1.36668	1.44719	6.52085	6.51322	6.48425	6.47890	22.261	118.3	88.3	103.3
								130.1	80.7	



RESULTS OF LAST SIX READINGS			
22.395	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	105.4
		<i>and its standard devia.</i>	9.4

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S1C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.32274	1.52612	6.77782	6.75689	6.71870	6.70108	56.235	324.4	290.7	307.6
2	1.36392	1.52535	6.76927	6.75530	6.70959	6.69974	44.636	216.5	162.5	189.5
3	1.36889	1.52615	6.76774	6.75399	6.70898	6.69941	43.483	213.1	157.9	185.5
4	1.36946	1.52463	6.76742	6.75332	6.70880	6.69945	42.905	218.6	154.3	186.5
5	1.37017	1.52476	6.76709	6.75284	6.70881	6.69938	42.744	220.9	155.6	188.3
6	1.37042	1.52337	6.76676	6.75387	6.70874	6.69997	42.291	199.8	144.7	172.3
7	1.36910	1.52397	6.76652	6.75285	6.70847	6.69931	42.822	211.9	151.1	181.5
8	1.37125	1.52331	6.76577	6.75259	6.70790	6.69914	42.045	204.3	144.5	174.4
9	1.37176	1.52474	6.76566	6.75220	6.70806	6.69868	42.299	208.6	154.8	181.7
10	1.37146	1.52400	6.76585	6.75214	6.70803	6.69916	42.177	212.5	146.4	179.5
11	1.37221	1.52440	6.76523	6.75191	6.70786	6.69864	42.081	206.5	152.1	179.3
12	1.37110	1.52377	6.76495	6.75111	6.70768	6.69876	42.213	214.5	147.2	180.9
								209.7	149.4	

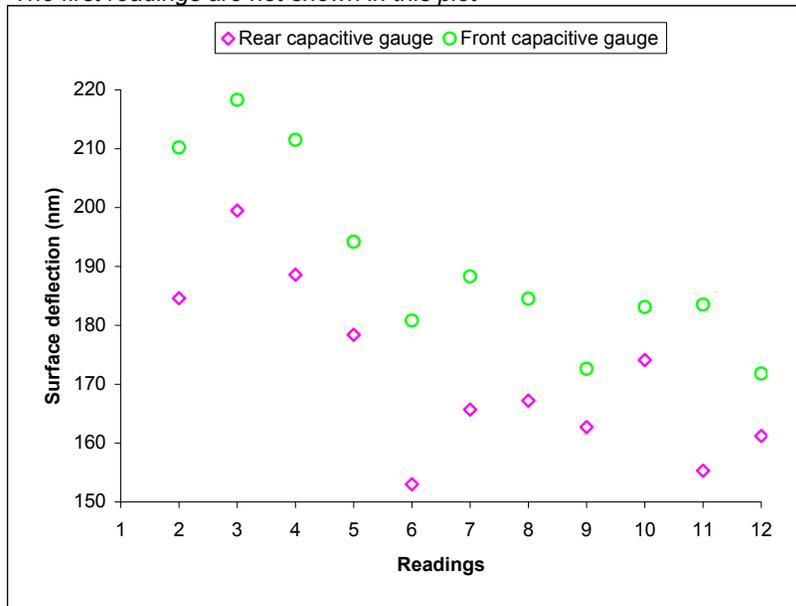


RESULTS OF LAST SIX READINGS			
42.273	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	179.5
		<i>and its standard devia.</i>	2.7

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S1D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.35054	1.39572	7.16466	6.96043	7.02360	6.82325	12.492	3165.6	3305.8	3235.7
2	1.37753	1.39844	6.94152	6.92961	6.78685	6.77411	5.782	184.6	210.2	197.4
3	1.37796	1.39859	6.93806	6.92519	6.78182	6.76859	5.704	199.5	218.3	208.9
4	1.37807	1.39763	6.93780	6.92563	6.78141	6.76859	5.408	188.6	211.5	200.1
5	1.37839	1.39853	6.93649	6.92498	6.77976	6.76799	5.569	178.4	194.2	186.3
6	1.37810	1.39848	6.93651	6.92664	6.78020	6.76924	5.635	153.0	180.8	166.9
7	1.37960	1.39953	6.93511	6.92442	6.77933	6.76792	5.511	165.7	188.3	177.0
8	1.37954	1.39969	6.93480	6.92401	6.77884	6.76766	5.571	167.2	184.5	175.9
9	1.37969	1.39951	6.93439	6.92389	6.77801	6.76755	5.480	162.7	172.6	167.7
10	1.38046	1.40078	6.93404	6.92281	6.77823	6.76713	5.619	174.1	183.1	178.6
11	1.38040	1.39943	6.93379	6.92377	6.77861	6.76749	5.262	155.3	183.5	169.4
12	1.38035	1.39933	6.93417	6.92377	6.77812	6.76771	5.248	161.2	171.8	166.5
								164.4	180.6	

The first readings are not shown in this plot

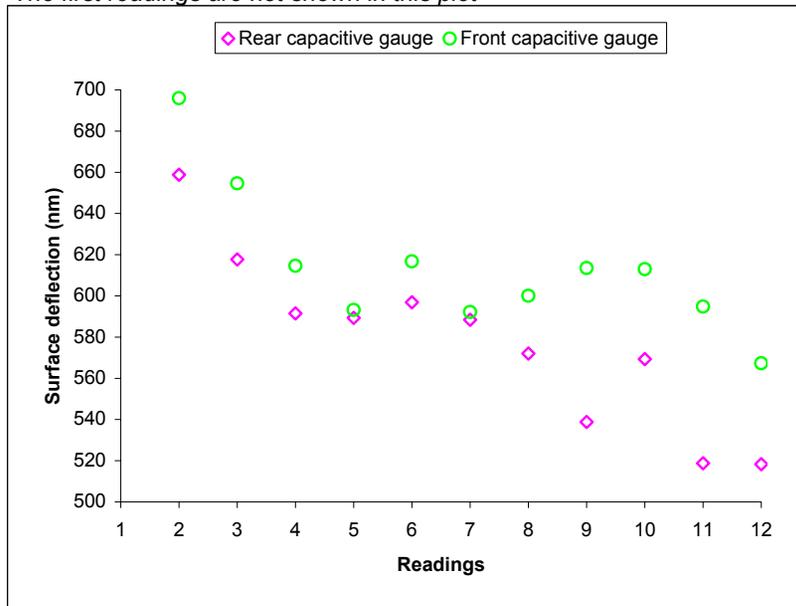


RESULTS OF LAST SIX READINGS			
5.449	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	172.5
		<i>and its standard devia.</i>	5.3

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S1D SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.35419	1.48447	7.49687	7.31708	7.32221	7.13255	36.023	2786.7	3129.4	2958.1
2	1.38227	1.48380	7.35402	7.31152	7.16794	7.12576	28.073	658.8	696.0	677.4
3	1.38341	1.48660	7.34980	7.30995	7.16278	7.12311	28.532	617.7	654.6	636.2
4	1.38855	1.48543	7.34540	7.30724	7.15670	7.11945	26.787	591.5	614.6	603.1
5	1.38745	1.48577	7.34444	7.30642	7.15465	7.11870	27.186	589.3	593.2	591.3
6	1.38699	1.48478	7.34397	7.30546	7.15357	7.11619	27.039	596.9	616.8	606.9
7	1.38853	1.48453	7.34273	7.30477	7.15013	7.11424	26.544	588.4	592.2	590.3
8	1.38772	1.48478	7.34140	7.30450	7.14874	7.11237	26.837	572.0	600.1	586.1
9	1.39002	1.48533	7.33848	7.30372	7.14726	7.11008	26.353	538.8	613.5	576.2
10	1.39025	1.48523	7.34008	7.30335	7.14687	7.10972	26.262	569.3	613.0	591.2
11	1.39089	1.48499	7.33618	7.30271	7.14543	7.10938	26.019	518.8	594.8	556.8
12	1.38960	1.48512	7.33546	7.30202	7.14368	7.10930	26.411	518.3	567.3	542.8
								550.9	596.8	

The first readings are not shown in this plot

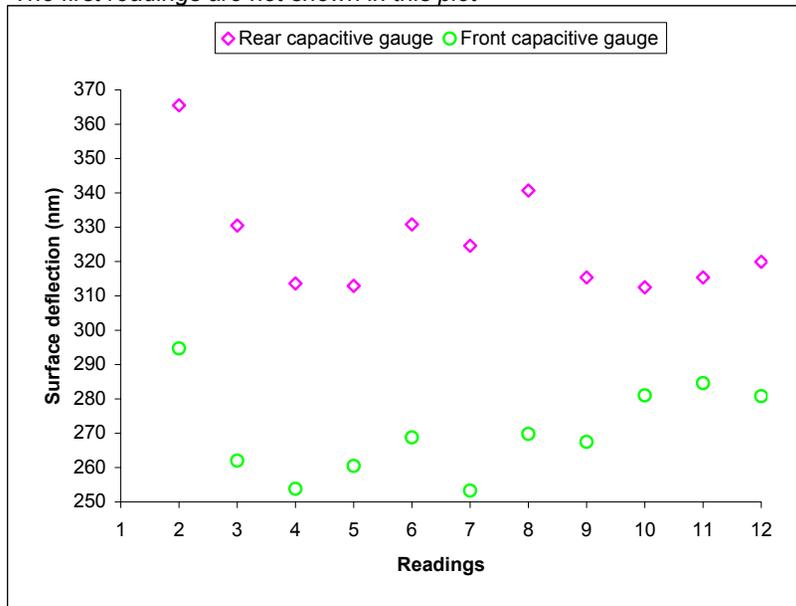


RESULTS OF LAST SIX READINGS			
26.404	Ave. change of load	Ave. resultant deflec.	573.9
		and its standard devia.	19.9

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S1D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.35092	1.55919	6.46795	6.38668	6.37167	6.29473	57.587	1259.7	1269.5	1264.6
2	1.38374	1.55914	6.40410	6.38052	6.30841	6.29055	48.498	365.5	294.7	330.1
3	1.38584	1.55870	6.40040	6.37908	6.30497	6.28909	47.796	330.5	262.0	296.3
4	1.38728	1.55925	6.39774	6.37751	6.30366	6.28828	47.550	313.6	253.8	283.7
5	1.38708	1.55882	6.39670	6.37651	6.30237	6.28658	47.486	312.9	260.5	286.7
6	1.38769	1.55884	6.39699	6.37565	6.30183	6.28554	47.323	330.8	268.8	299.8
7	1.38835	1.55911	6.39528	6.37434	6.29998	6.28463	47.215	324.6	253.3	289.0
8	1.38871	1.55954	6.39496	6.37298	6.29999	6.28364	47.235	340.7	269.8	305.3
9	1.39052	1.56090	6.39264	6.37229	6.29874	6.28253	47.110	315.4	267.5	291.5
10	1.39112	1.56052	6.39190	6.37174	6.29834	6.28131	46.839	312.5	281.0	296.8
11	1.39063	1.56110	6.39159	6.37124	6.29792	6.28067	47.135	315.4	284.6	300.0
12	1.39011	1.56051	6.39102	6.37038	6.29684	6.27982	47.116	319.9	280.8	300.4
								321.4	272.8	

The first readings are not shown in this plot

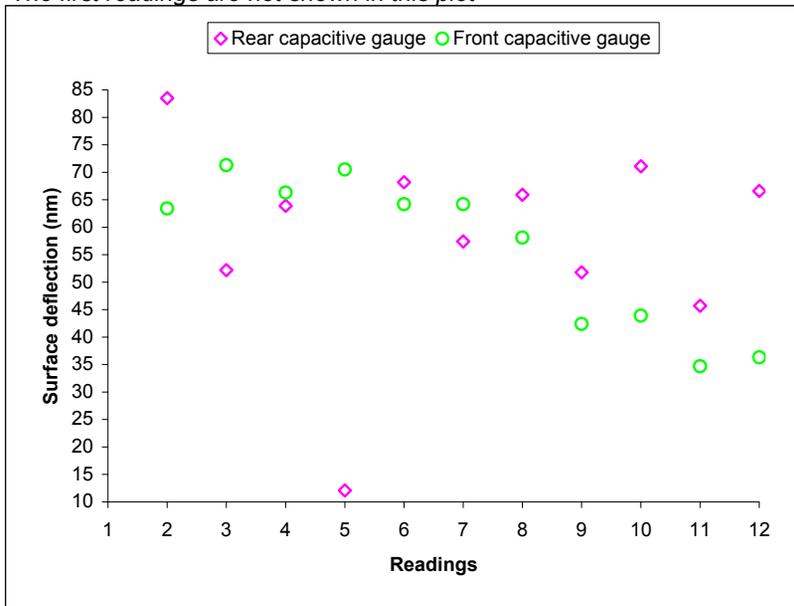


RESULTS OF LAST SIX READINGS			
47.108	Ave. change of load	Ave. resultant deflec.	297.1
		and its standard devia.	6.1

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S2C SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.46275	1.49062	7.75331	7.72079	7.49092	7.46236	7.706	504.1	471.2	487.7
2	1.47531	1.49124	7.72060	7.71521	7.46227	7.45843	4.405	83.5	63.4	73.5
3	1.47560	1.49250	7.71750	7.71413	7.46058	7.45626	4.673	52.2	71.3	61.8
4	1.47583	1.49241	7.71646	7.71234	7.45776	7.45374	4.584	63.9	66.3	65.1
5	1.47673	1.49407	7.71520	7.71442	7.45730	7.45303	4.795	12.1	70.5	41.3
6	1.47679	1.49275	7.71527	7.71087	7.45596	7.45207	4.413	68.2	64.2	66.2
7	1.47699	1.49304	7.71384	7.71014	7.45521	7.45132	4.438	57.4	64.2	60.8
8	1.47697	1.49401	7.71353	7.70928	7.45461	7.45109	4.712	65.9	58.1	62.0
9	1.47637	1.49280	7.71275	7.70941	7.45367	7.45110	4.543	51.8	42.4	47.1
10	1.47550	1.49264	7.71353	7.70894	7.45365	7.45099	4.739	71.1	43.9	57.5
11	1.47610	1.49374	7.71268	7.70973	7.45263	7.45053	4.877	45.7	34.7	40.2
12	1.47615	1.49313	7.71233	7.70803	7.45244	7.45024	4.695	66.6	36.3	51.5
								59.8	46.6	

The first readings are not shown in this plot

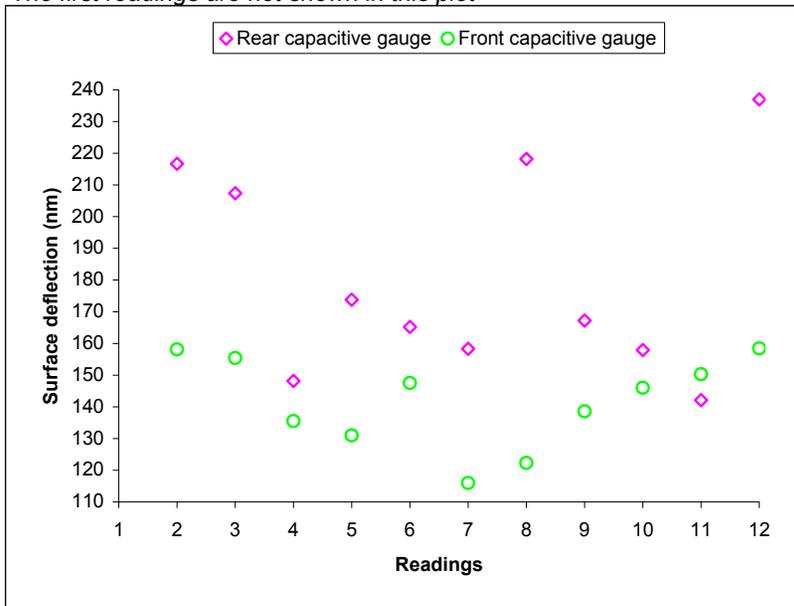


RESULTS OF LAST SIX READINGS			
4.667	<i>Ave. change of load</i>	<i>Ave. resultant deflec. and its standard devia.</i>	53.2
			8.5

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S2C SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.46840	1.57341	7.37918	7.35020	7.15329	7.12656	29.035	449.2	441.0	445.1
2	1.50233	1.57208	7.35775	7.34377	7.12839	7.11881	19.286	216.7	158.1	187.4
3	1.50474	1.57137	7.35563	7.34225	7.12520	7.11578	18.423	207.4	155.4	181.4
4	1.50506	1.57045	7.34867	7.33911	7.12245	7.11424	18.080	148.2	135.5	141.9
5	1.50440	1.56899	7.34738	7.33617	7.11972	7.11178	17.859	173.8	131.0	152.4
6	1.50354	1.56829	7.34527	7.33461	7.11860	7.10966	17.903	165.2	147.5	156.4
7	1.50387	1.56856	7.34381	7.33360	7.11618	7.10915	17.887	158.3	116.0	137.2
8	1.50384	1.56745	7.34686	7.33278	7.11446	7.10705	17.588	218.2	122.3	170.3
9	1.50305	1.56630	7.34182	7.33103	7.11275	7.10435	17.489	167.2	138.6	152.9
10	1.50131	1.56690	7.34011	7.32992	7.11062	7.10177	18.136	157.9	146.0	152.0
11	1.50222	1.56575	7.33801	7.32884	7.10943	7.10032	17.566	142.1	150.3	146.2
12	1.50123	1.56606	7.34296	7.32767	7.10909	7.09949	17.926	237.0	158.4	197.7
								180.1	138.6	

The first readings are not shown in this plot

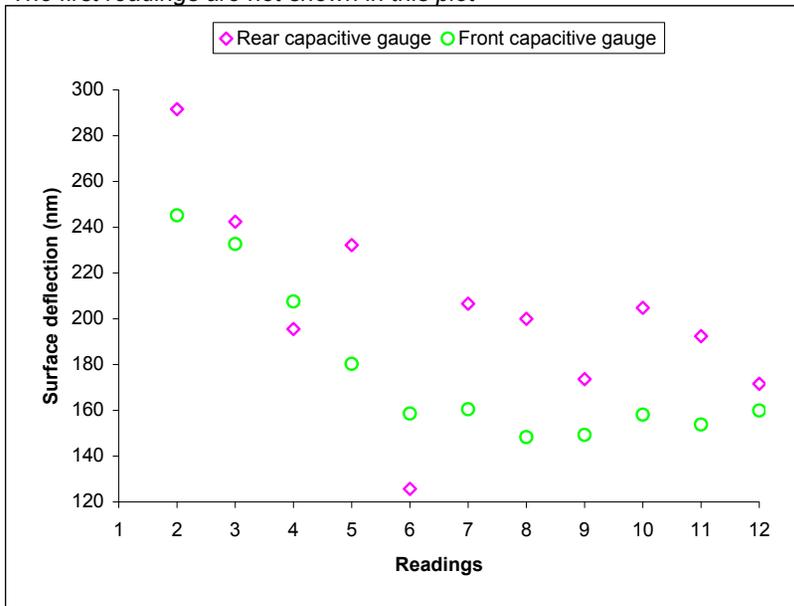


RESULTS OF LAST SIX READINGS			
17.765	Ave. change of load	Ave. resultant deflec.	159.4
		and its standard devia.	21.7

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S2C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.46377	1.64378	6.62547	6.55509	6.45462	6.38380	49.773	1090.9	1168.5	1129.7
2	1.52295	1.64204	6.56317	6.54436	6.39058	6.37572	32.929	291.6	245.2	268.4
3	1.52640	1.63972	6.55757	6.54193	6.38648	6.37238	31.333	242.4	232.7	237.6
4	1.52950	1.63738	6.55250	6.53989	6.38132	6.36874	29.829	195.5	207.6	201.6
5	1.53049	1.63661	6.55093	6.53595	6.37900	6.36807	29.342	232.2	180.3	206.3
6	1.53202	1.63736	6.54878	6.54067	6.37735	6.36774	29.127	125.7	158.6	142.2
7	1.53137	1.63582	6.54688	6.53355	6.37645	6.36672	28.881	206.6	160.5	183.6
8	1.53073	1.63419	6.54570	6.53280	6.37468	6.36569	28.607	200.0	148.3	174.2
9	1.53171	1.63466	6.54435	6.53315	6.37349	6.36444	28.466	173.6	149.3	161.5
10	1.53187	1.63453	6.54382	6.53061	6.37237	6.36279	28.386	204.8	158.1	181.5
11	1.53259	1.63556	6.54262	6.53021	6.37124	6.36192	28.471	192.4	153.8	173.1
12	1.53263	1.63531	6.54278	6.53171	6.37145	6.36176	28.391	171.6	159.9	165.8
								191.5	155.0	

The first readings are not shown in this plot

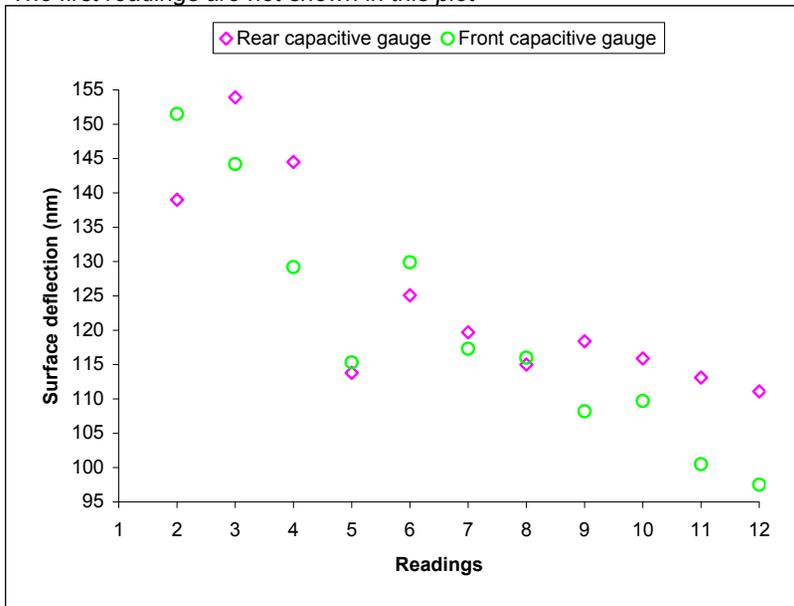


RESULTS OF LAST SIX READINGS			
28.534	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	173.2
		<i>and its standard devia.</i>	8.6

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S2D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.43026	1.46015	6.85735	6.74367	6.71971	6.61579	8.265	1762.0	1714.7	1738.4
2	1.44608	1.46194	6.74906	6.74009	6.62070	6.61152	4.385	139.0	151.5	145.3
3	1.44625	1.46263	6.74878	6.73885	6.61976	6.61102	4.529	153.9	144.2	149.1
4	1.44684	1.46365	6.74765	6.73833	6.61849	6.61066	4.648	144.5	129.2	136.9
5	1.44769	1.46375	6.74543	6.73809	6.61647	6.60948	4.441	113.8	115.3	114.6
6	1.44844	1.46408	6.74567	6.73760	6.61653	6.60866	4.324	125.1	129.9	127.5
7	1.44890	1.46416	6.74448	6.73676	6.61546	6.60835	4.219	119.7	117.3	118.5
8	1.44839	1.46513	6.74418	6.73676	6.61530	6.60827	4.629	115.0	116.0	115.5
9	1.44995	1.46538	6.74362	6.73598	6.61425	6.60769	4.266	118.4	108.2	113.3
10	1.45062	1.46536	6.74290	6.73542	6.61357	6.60692	4.076	115.9	109.7	112.8
11	1.45087	1.46502	6.74240	6.73510	6.61279	6.60670	3.912	113.1	100.5	106.8
12	1.44919	1.46440	6.74219	6.73502	6.61247	6.60656	4.206	111.1	97.5	104.3
								115.5	108.2	

The first readings are not shown in this plot

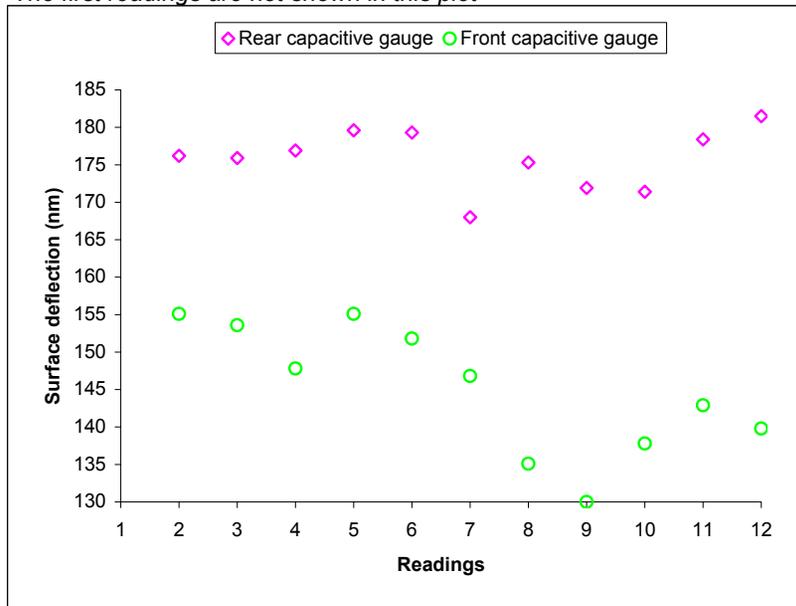


RESULTS OF LAST SIX READINGS			
4.218	Ave. change of load	Ave. resultant deflec.	111.9
		and its standard devia.	5.3

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S2D SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.42792	1.54753	6.54662	6.52359	6.42913	6.40914	33.072	357.0	329.8	343.4
2	1.45267	1.55008	6.53332	6.52195	6.41653	6.40713	26.934	176.2	155.1	165.7
3	1.45355	1.54824	6.53289	6.52154	6.41602	6.40671	26.182	175.9	153.6	164.8
4	1.45575	1.55096	6.53241	6.52100	6.41578	6.40682	26.326	176.9	147.8	162.4
5	1.45736	1.55134	6.53193	6.52034	6.41569	6.40629	25.986	179.6	155.1	167.4
6	1.45632	1.55081	6.53239	6.52082	6.41572	6.40652	26.127	179.3	151.8	165.6
7	1.45723	1.55152	6.53120	6.52036	6.41543	6.40653	26.071	168.0	146.8	157.4
8	1.45689	1.54956	6.53107	6.51976	6.41426	6.40607	25.623	175.3	135.1	155.2
9	1.45767	1.55113	6.53074	6.51965	6.41394	6.40606	25.842	171.9	130.0	151.0
10	1.45859	1.55128	6.53067	6.51961	6.41448	6.40613	25.629	171.4	137.8	154.6
11	1.45876	1.55162	6.53036	6.51885	6.41396	6.40530	25.676	178.4	142.9	160.7
12	1.45674	1.55077	6.53059	6.51888	6.41400	6.40553	25.999	181.5	139.8	160.7
								174.4	138.7	

The first readings are not shown in this plot

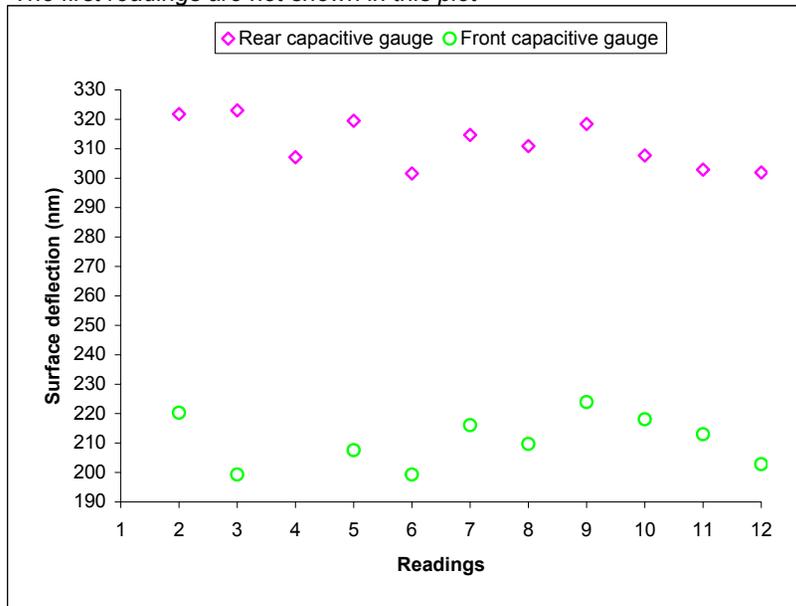


RESULTS OF LAST SIX READINGS			
25.807	Ave. change of load	Ave. resultant deflec.	156.6
		and its standard devia.	3.8

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON S2D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.42964	1.62473	6.86313	6.81877	6.71956	6.68204	53.943	687.6	619.1	653.4
2	1.45474	1.62736	6.83589	6.81513	6.69281	6.67946	47.730	321.8	220.3	271.1
3	1.45581	1.62735	6.83510	6.81426	6.69114	6.67906	47.431	323.0	199.3	261.2
4	1.45784	1.62799	6.83342	6.81361	6.69008	6.67858	47.047	307.1	189.7	248.4
5	1.45700	1.62722	6.83292	6.81231	6.68971	6.67713	47.066	319.5	207.6	263.6
6	1.45925	1.62848	6.83156	6.81210	6.68952	6.67744	46.792	301.6	199.3	250.5
7	1.45874	1.62834	6.83105	6.81075	6.68941	6.67631	46.895	314.7	216.1	265.4
8	1.45825	1.62880	6.83114	6.81108	6.68933	6.67662	47.157	310.9	209.7	260.3
9	1.45757	1.62822	6.83025	6.80971	6.68910	6.67553	47.185	318.4	223.9	271.2
10	1.45856	1.62749	6.82952	6.80967	6.68840	6.67518	46.709	307.7	218.1	262.9
11	1.45967	1.62867	6.82896	6.80942	6.68788	6.67497	46.729	302.9	213.0	258.0
12	1.45795	1.62849	6.82874	6.80926	6.68741	6.67512	47.154	301.9	202.8	252.4
								309.4	213.9	

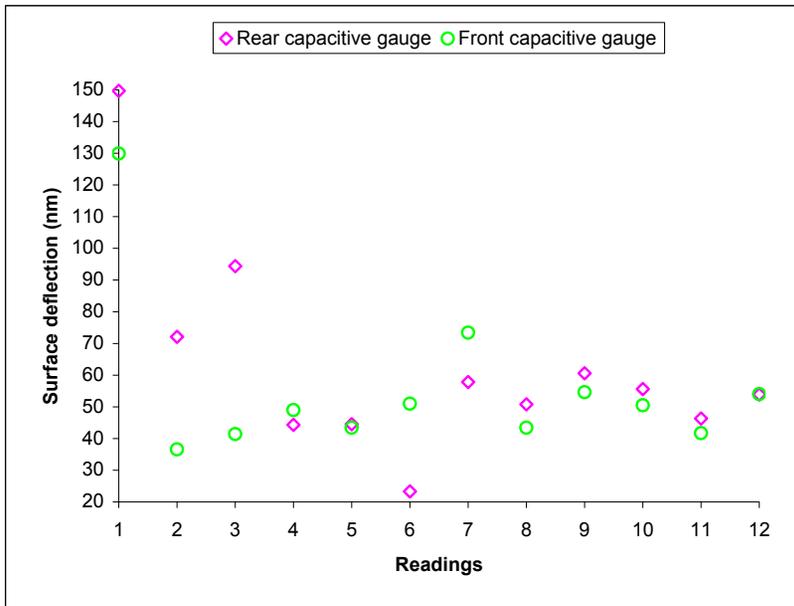
The first readings are not shown in this plot



RESULTS OF LAST SIX READINGS			
46.972	Ave. change of load	Ave. resultant deflec.	261.7
		and its standard devia.	6.4

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A1C SURFACE USING 15g DEAD-WEIGHT

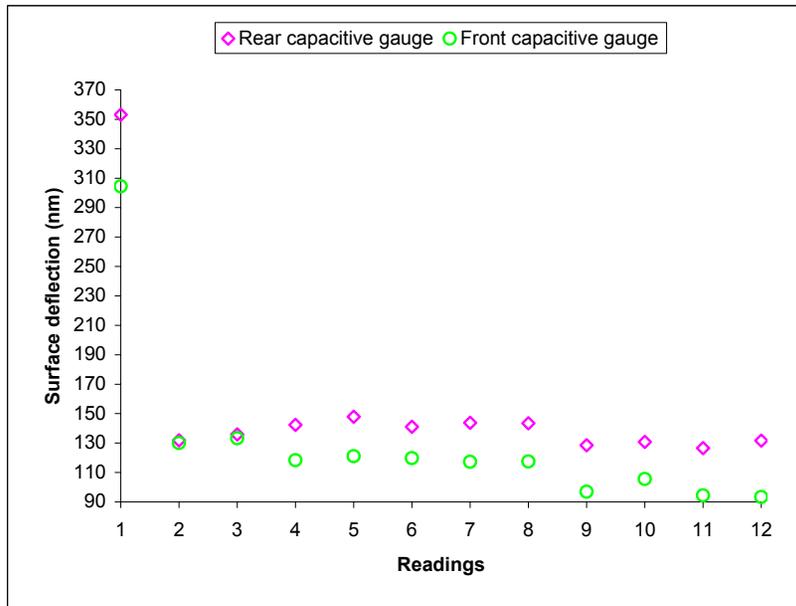
Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50662	1.55731	6.85544	6.84578	6.71172	6.70385	14.016	149.7	129.9	139.8
2	1.53384	1.55830	6.85090	6.84625	6.70486	6.70264	6.763	72.1	36.6	54.4
3	1.53180	1.55600	6.84904	6.84295	6.70678	6.70427	6.691	94.4	41.4	67.9
4	1.53238	1.55754	6.84602	6.84316	6.70459	6.70162	6.957	44.3	49.0	46.7
5	1.53282	1.55838	6.84591	6.84304	6.70469	6.70206	7.067	44.5	43.4	44.0
6	1.53483	1.55845	6.84600	6.84450	6.70407	6.70098	6.531	23.3	51.0	37.2
7	1.53425	1.55773	6.84644	6.84271	6.70496	6.70051	6.492	57.8	73.4	65.6
8	1.53411	1.55810	6.84567	6.84239	6.70406	6.70143	6.633	50.8	43.4	47.1
9	1.53527	1.55813	6.84564	6.84173	6.70404	6.70073	6.321	60.6	54.6	57.6
10	1.53371	1.55796	6.84542	6.84183	6.70386	6.70080	6.705	55.6	50.5	53.1
11	1.53398	1.55688	6.84466	6.84167	6.70303	6.70050	6.332	46.3	41.7	44.0
12	1.53417	1.55852	6.84509	6.84161	6.70342	6.70015	6.733	53.9	54.0	54.0
								54.2	52.9	



RESULTS OF LAST SIX READINGS			
6.536	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	53.6
		<i>and its standard devia.</i>	7.7

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A1C SURFACE USING 35g DEAD-WEIGHT

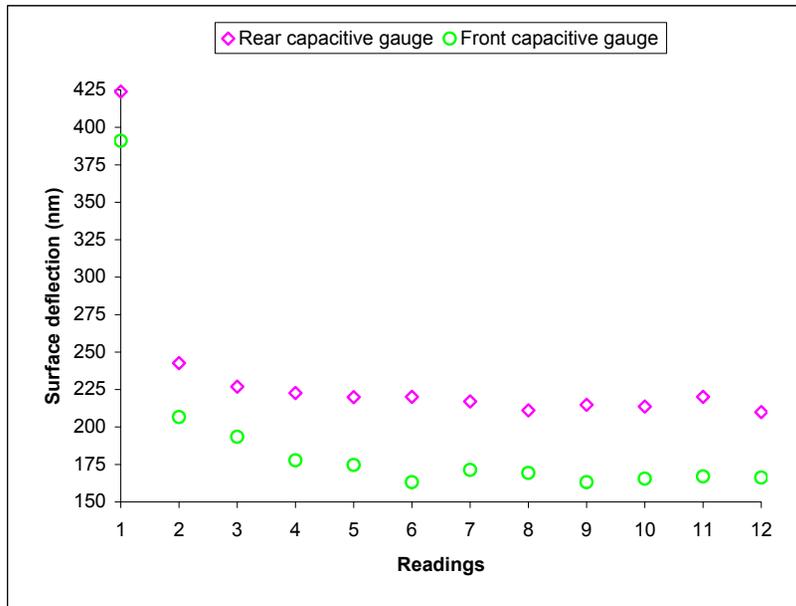
Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.51171	1.63241	6.95969	6.93691	6.74132	6.72287	33.374	353.1	304.4	328.8
2	1.55803	1.63178	6.94434	6.93583	6.72884	6.72096	20.392	131.9	130.0	131.0
3	1.55992	1.63119	6.94345	6.93468	6.72768	6.71960	19.706	135.9	133.3	134.6
4	1.56026	1.63035	6.94326	6.93407	6.72697	6.71980	19.380	142.4	118.3	130.4
5	1.55899	1.62988	6.94321	6.93367	6.72650	6.71916	19.601	147.9	121.1	134.5
6	1.55940	1.63026	6.94302	6.93392	6.72624	6.71898	19.593	141.1	119.8	130.5
7	1.55942	1.62995	6.94298	6.93370	6.72600	6.71889	19.502	143.8	117.3	130.6
8	1.55902	1.63053	6.94284	6.93359	6.72586	6.71874	19.773	143.4	117.5	130.5
9	1.56051	1.63080	6.94201	6.93372	6.72455	6.71868	19.435	128.5	96.9	112.7
10	1.56028	1.63042	6.94202	6.93358	6.72517	6.71877	19.394	130.8	105.6	118.2
11	1.56201	1.63185	6.94174	6.93357	6.72446	6.71874	19.311	126.6	94.4	110.5
12	1.56212	1.63213	6.94116	6.93267	6.72401	6.71835	19.358	131.6	93.4	112.5
								134.1	104.2	



RESULTS OF LAST SIX READINGS			
19.462	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	119.2
		<i>and its standard devia.</i>	9.2

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A1C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50820	1.70932	7.45634	7.42900	7.29984	7.27614	55.610	423.8	391.0	407.4
2	1.56499	1.70726	7.44301	7.42735	7.28847	7.27595	39.338	242.7	206.6	224.7
3	1.56916	1.70687	7.44156	7.42692	7.28741	7.27568	38.077	226.9	193.5	210.2
4	1.56956	1.70585	7.44120	7.42683	7.28648	7.27571	37.684	222.7	177.7	200.2
5	1.57259	1.70637	7.44075	7.42656	7.28623	7.27565	36.990	219.9	174.6	197.3
6	1.57339	1.70660	7.44031	7.42611	7.28571	7.27582	36.833	220.1	163.2	191.7
7	1.57262	1.70650	7.44026	7.42626	7.28585	7.27546	37.018	217.0	171.4	194.2
8	1.57304	1.70652	7.43951	7.42589	7.28579	7.27553	36.907	211.1	169.3	190.2
9	1.57367	1.70519	7.43945	7.42559	7.28548	7.27559	36.365	214.8	163.2	189.0
10	1.57040	1.70456	7.43949	7.42570	7.28528	7.27525	37.095	213.7	165.5	189.6
11	1.57310	1.70457	7.43919	7.42499	7.28536	7.27524	36.352	220.1	167.0	193.6
12	1.57311	1.70503	7.43840	7.42486	7.28517	7.27509	36.476	209.9	166.3	188.1
								214.4	167.1	

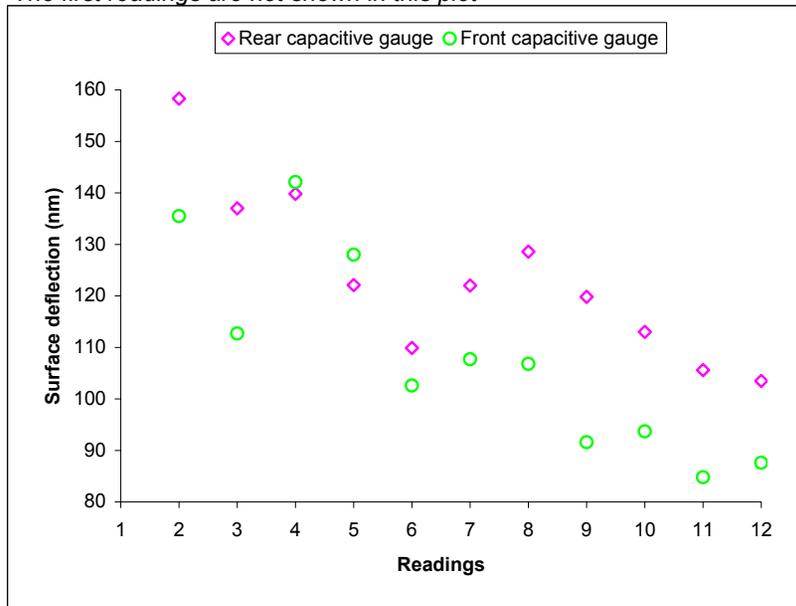


RESULTS OF LAST SIX READINGS			
36.702	<i>Ave. change of load</i>	<i>Ave. resultant deflec. and its standard devia.</i>	190.8
			2.5

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A1D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50169	1.54241	7.50747	7.31037	7.44264	7.26516	11.259	3055.1	2928.4	2991.8
2	1.52408	1.54199	7.29720	7.28699	7.25219	7.24398	4.952	158.3	135.5	146.9
3	1.52373	1.54110	7.29342	7.28458	7.24730	7.24047	4.803	137.0	112.7	124.9
4	1.52394	1.54161	7.29062	7.28160	7.24609	7.23748	4.886	139.8	142.1	141.0
5	1.52416	1.54189	7.28784	7.27996	7.24418	7.23642	4.902	122.1	128.0	125.1
6	1.52364	1.54157	7.28592	7.27883	7.24209	7.23587	4.958	109.9	102.6	106.3
7	1.52380	1.54075	7.28519	7.27732	7.24116	7.23463	4.687	122.0	107.7	114.9
8	1.52351	1.54036	7.28499	7.27669	7.24058	7.23411	4.659	128.6	106.8	117.7
9	1.52346	1.54106	7.28404	7.27631	7.23902	7.23347	4.866	119.8	91.6	105.7
10	1.52411	1.54062	7.28263	7.27534	7.23821	7.23253	4.565	113.0	93.7	103.4
11	1.52312	1.53997	7.28232	7.27551	7.23778	7.23264	4.659	105.6	84.8	95.2
12	1.52324	1.53936	7.28173	7.27505	7.23741	7.23210	4.457	103.5	87.6	95.6
								115.4	95.4	

The first readings are not shown in this plot

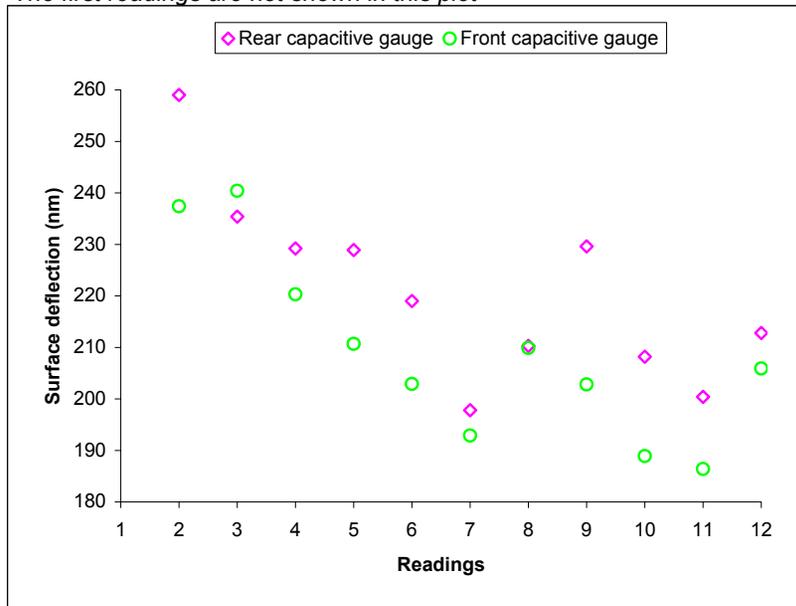


RESULTS OF LAST SIX READINGS			
4.649	Ave. change of load	Ave. resultant deflec.	105.4
		and its standard devia.	9.4

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A1D SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.40654	1.54115	6.94519	6.65398	6.82604	6.56193	37.220	4513.8	4357.8	4435.8
2	1.45079	1.54080	6.66447	6.64776	6.56996	6.55557	24.888	259.0	237.4	248.2
3	1.45191	1.53835	6.66109	6.64590	6.56745	6.55288	23.901	235.4	240.4	237.9
4	1.45463	1.53842	6.65995	6.64516	6.56587	6.55252	23.168	229.2	220.3	224.8
5	1.45375	1.53882	6.65929	6.64452	6.56516	6.55239	23.522	228.9	210.7	219.8
6	1.45526	1.53853	6.65818	6.64405	6.56407	6.55177	23.024	219.0	202.9	211.0
7	1.45626	1.53830	6.65684	6.64408	6.56301	6.55132	22.684	197.8	192.9	195.4
8	1.45653	1.53922	6.65610	6.64253	6.56264	6.54992	22.864	210.3	209.9	210.1
9	1.45611	1.53788	6.65705	6.64224	6.56283	6.55054	22.609	229.6	202.8	216.2
10	1.45657	1.53856	6.65538	6.64195	6.56169	6.55024	22.670	208.2	188.9	198.6
11	1.45710	1.53764	6.65448	6.64155	6.56145	6.55015	22.269	200.4	186.4	193.4
12	1.45764	1.53876	6.65493	6.64120	6.56212	6.54964	22.430	212.8	205.9	209.4
								209.9	197.8	

The first readings are not shown in this plot

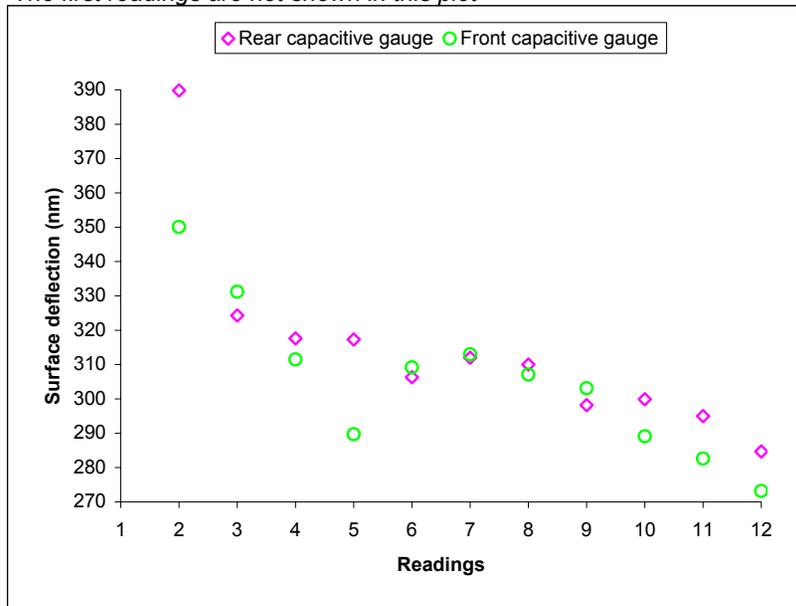


RESULTS OF LAST SIX READINGS			
22.588	Ave. change of load	Ave. resultant deflec.	203.8
		and its standard devia.	9.3

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A1D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.49833	1.68920	6.53350	6.46022	6.39467	6.32709	52.776	1135.8	1115.1	1125.5
2	1.54803	1.68788	6.48058	6.45543	6.34460	6.32338	38.669	389.8	350.1	370.0
3	1.55099	1.68699	6.47591	6.45499	6.34186	6.32179	37.604	324.3	331.2	327.8
4	1.55153	1.68575	6.47463	6.45414	6.34024	6.32136	37.112	317.6	311.5	314.6
5	1.55128	1.68436	6.47402	6.45355	6.33905	6.32149	36.797	317.3	289.7	303.5
6	1.55295	1.68445	6.47188	6.45212	6.33853	6.31979	36.360	306.3	309.2	307.8
7	1.55201	1.68473	6.47151	6.45138	6.33830	6.31933	36.697	312.0	313.0	312.5
8	1.55265	1.68378	6.47021	6.45021	6.33723	6.31862	36.258	310.0	307.1	308.6
9	1.55190	1.68357	6.46933	6.45009	6.33690	6.31853	36.407	298.2	303.1	300.7
10	1.55198	1.68253	6.46927	6.44992	6.33588	6.31836	36.097	299.9	289.1	294.5
11	1.55234	1.68313	6.46790	6.44887	6.33502	6.31789	36.164	295.0	282.6	288.8
12	1.55231	1.68330	6.46761	6.44924	6.33471	6.31815	36.219	284.7	273.2	279.0
								300.0	294.7	

The first readings are not shown in this plot

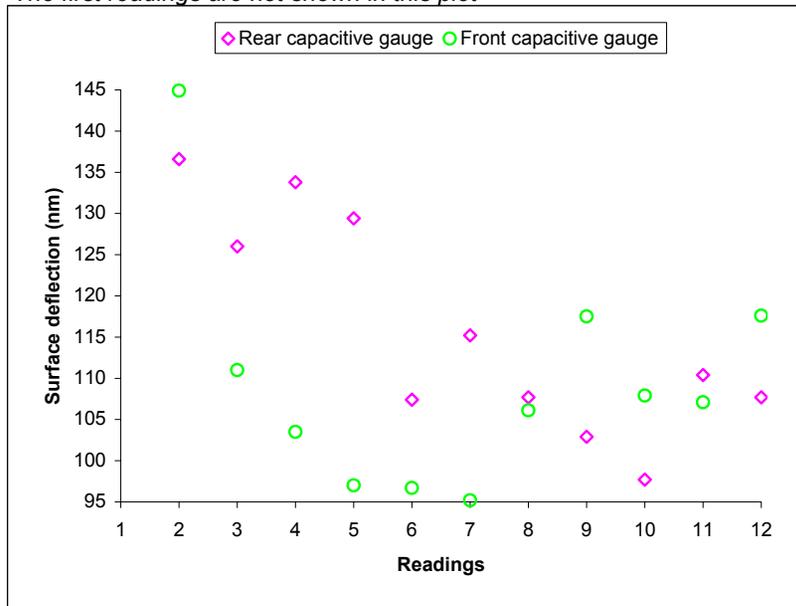


RESULTS OF LAST SIX READINGS			
36.307	Ave. change of load	Ave. resultant deflec.	297.3
		and its standard devia.	12.5

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A2C SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.43045	1.47616	6.96631	6.90430	6.83153	6.77006	12.639	961.2	1014.3	987.8
2	1.45368	1.47678	6.90646	6.89765	6.77222	6.76344	6.387	136.6	144.9	140.8
3	1.45490	1.47585	6.90458	6.89645	6.76972	6.76299	5.793	126.0	111.0	118.5
4	1.45513	1.47627	6.90416	6.89553	6.76880	6.76253	5.845	133.8	103.5	118.7
5	1.45455	1.47649	6.90366	6.89531	6.76813	6.76225	6.066	129.4	97.0	113.2
6	1.45559	1.47670	6.90243	6.89550	6.76773	6.76187	5.837	107.4	96.7	102.1
7	1.45425	1.47599	6.90194	6.89451	6.76763	6.76186	6.011	115.2	95.2	105.2
8	1.45412	1.47540	6.90137	6.89442	6.76755	6.76112	5.884	107.7	106.1	106.9
9	1.45417	1.47567	6.90075	6.89411	6.76715	6.76003	5.945	102.9	117.5	110.2
10	1.45437	1.47574	6.90040	6.89410	6.76668	6.76014	5.909	97.7	107.9	102.8
11	1.45341	1.47534	6.90038	6.89326	6.76688	6.76039	6.064	110.4	107.1	108.8
12	1.45479	1.47645	6.89980	6.89285	6.76637	6.75924	5.989	107.7	117.6	112.7
								106.9	108.6	

The first readings are not shown in this plot

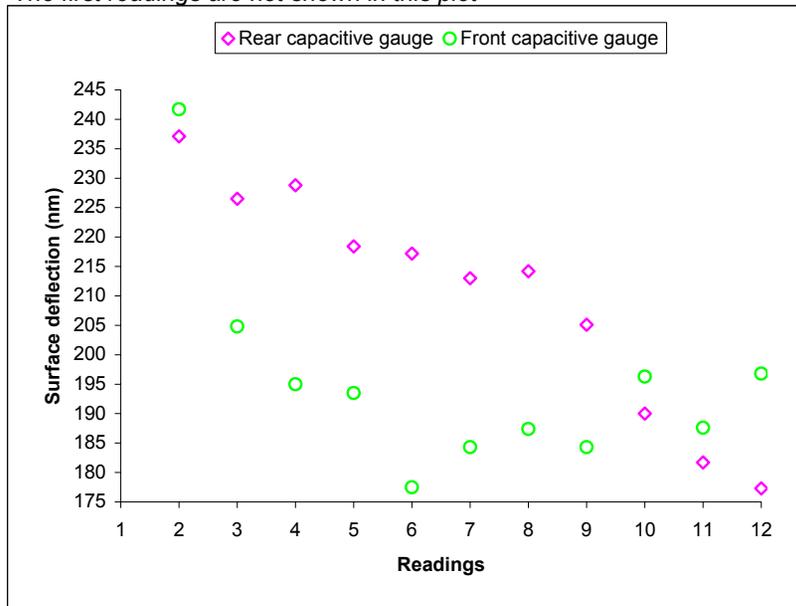


RESULTS OF LAST SIX READINGS			
5.967	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	107.8
		<i>and its standard devia.</i>	3.5

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A2C SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.42769	1.54942	7.08537	6.92528	6.93855	6.77558	33.658	2481.4	2689.0	2585.2
2	1.47530	1.54922	6.93382	6.91852	6.78294	6.76829	20.439	237.1	241.7	239.4
3	1.47726	1.54873	6.93211	6.91750	6.78017	6.76776	19.762	226.5	204.8	215.7
4	1.47719	1.55038	6.93073	6.91597	6.77932	6.76750	20.237	228.8	195.0	211.9
5	1.47748	1.54895	6.92970	6.91561	6.77844	6.76671	19.762	218.4	193.5	206.0
6	1.47881	1.54946	6.92883	6.91482	6.77778	6.76702	19.535	217.2	177.5	197.4
7	1.47916	1.54900	6.92820	6.91446	6.77738	6.76621	19.311	213.0	184.3	198.7
8	1.47902	1.54915	6.92809	6.91427	6.77748	6.76612	19.391	214.2	187.4	200.8
9	1.47826	1.54987	6.92738	6.91415	6.77734	6.76617	19.800	205.1	184.3	194.7
10	1.47921	1.54952	6.92625	6.91399	6.77703	6.76513	19.441	190.0	196.3	193.2
11	1.47975	1.54979	6.92550	6.91378	6.77627	6.76490	19.366	181.7	187.6	184.7
12	1.47984	1.55000	6.92471	6.91327	6.77586	6.76393	19.399	177.3	196.8	187.1
								196.9	189.5	

The first readings are not shown in this plot

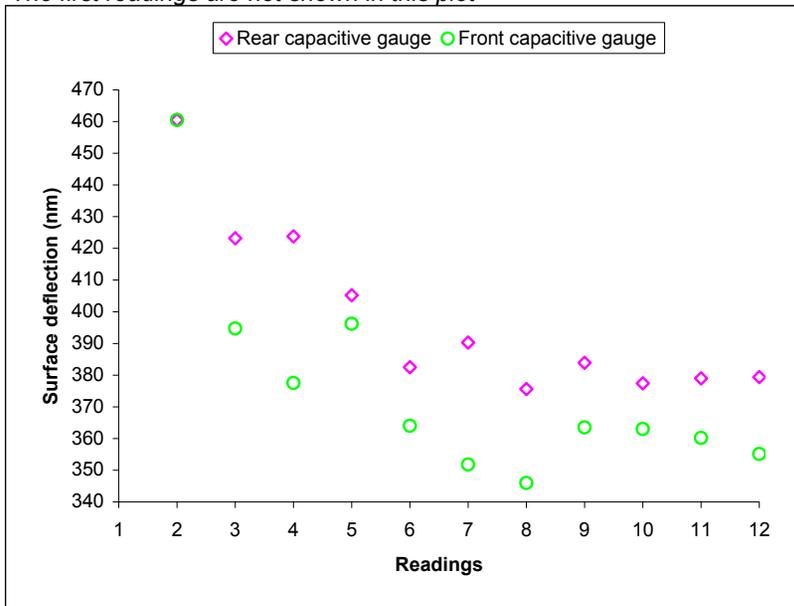


RESULTS OF LAST SIX READINGS			
19.451	Ave. change of load	Ave. resultant deflec.	193.2
		and its standard devia.	6.3

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A2C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.42840	1.63208	7.29706	7.07095	7.13845	6.91380	56.318	3504.7	3706.7	3605.7
2	1.48846	1.63103	7.09166	7.06195	6.93289	6.90498	39.421	460.5	460.5	460.5
3	1.48939	1.62943	7.08730	7.06000	6.92718	6.90326	38.721	423.2	394.7	409.0
4	1.48982	1.62883	7.08472	7.05738	6.92421	6.90133	38.436	423.8	377.5	400.7
5	1.49086	1.62803	7.08270	7.05656	6.92361	6.89960	37.928	405.2	396.2	400.7
6	1.49269	1.62864	7.08034	7.05566	6.92140	6.89934	37.590	382.5	364.0	373.3
7	1.49293	1.62874	7.07987	7.05469	6.92017	6.89885	37.552	390.3	351.8	371.1
8	1.49466	1.62839	7.07798	7.05375	6.91851	6.89754	36.976	375.6	346.0	360.8
9	1.49263	1.62706	7.07802	7.05325	6.91891	6.89688	37.170	383.9	363.5	373.7
10	1.49330	1.62790	7.07673	7.05238	6.91807	6.89607	37.217	377.4	363.0	370.2
11	1.49284	1.62767	7.07626	7.05181	6.91726	6.89543	37.281	379.0	360.2	369.6
12	1.49238	1.62667	7.07588	7.05140	6.91631	6.89479	37.131	379.4	355.1	367.3
								380.9	356.6	

The first readings are not shown in this plot

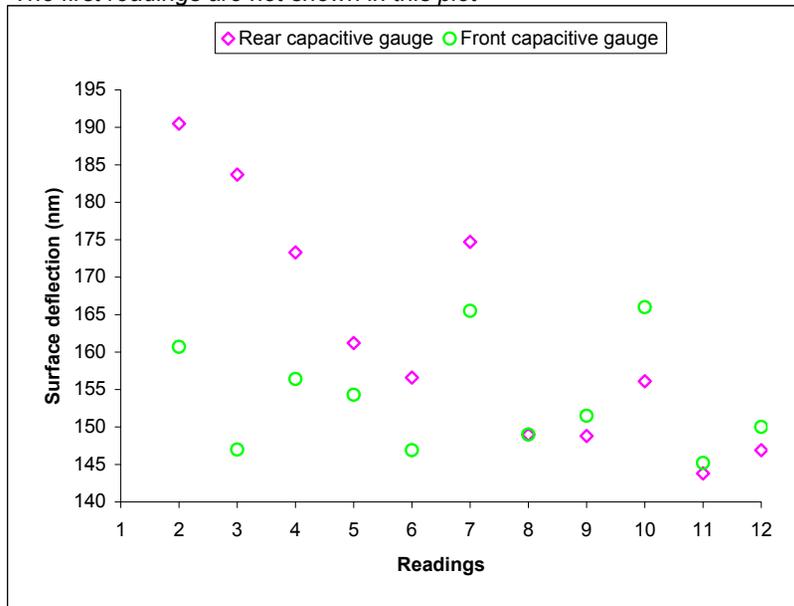


RESULTS OF LAST SIX READINGS			
37.221	Ave. change of load	Ave. resultant deflec.	368.8
		and its standard devia.	4.4

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A2D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.38897	1.43092	6.95287	6.76337	6.82059	6.65665	11.599	2937.3	2705.0	2821.2
2	1.41259	1.43139	6.75808	6.74579	6.65037	6.64063	5.198	190.5	160.7	175.6
3	1.41185	1.43096	6.75512	6.74327	6.64717	6.63826	5.284	183.7	147.0	165.4
4	1.41299	1.43215	6.75342	6.74224	6.64570	6.63622	5.298	173.3	156.4	164.9
5	1.41435	1.43212	6.75202	6.74162	6.64473	6.63538	4.913	161.2	154.3	157.8
6	1.41271	1.43120	6.75086	6.74076	6.64289	6.63399	5.113	156.6	146.9	151.8
7	1.41261	1.43174	6.75133	6.74006	6.64240	6.63237	5.289	174.7	165.5	170.1
8	1.41548	1.43293	6.74852	6.73891	6.64087	6.63184	4.825	149.0	149.0	149.0
9	1.41520	1.43222	6.74829	6.73869	6.64051	6.63133	4.706	148.8	151.5	150.2
10	1.41478	1.43203	6.74886	6.73879	6.64064	6.63058	4.770	156.1	166.0	161.1
11	1.41573	1.43278	6.74751	6.73823	6.63968	6.63088	4.714	143.8	145.2	144.5
12	1.41581	1.43219	6.74749	6.73801	6.63987	6.63078	4.529	146.9	150.0	148.5
								153.2	154.5	

The first readings are not shown in this plot

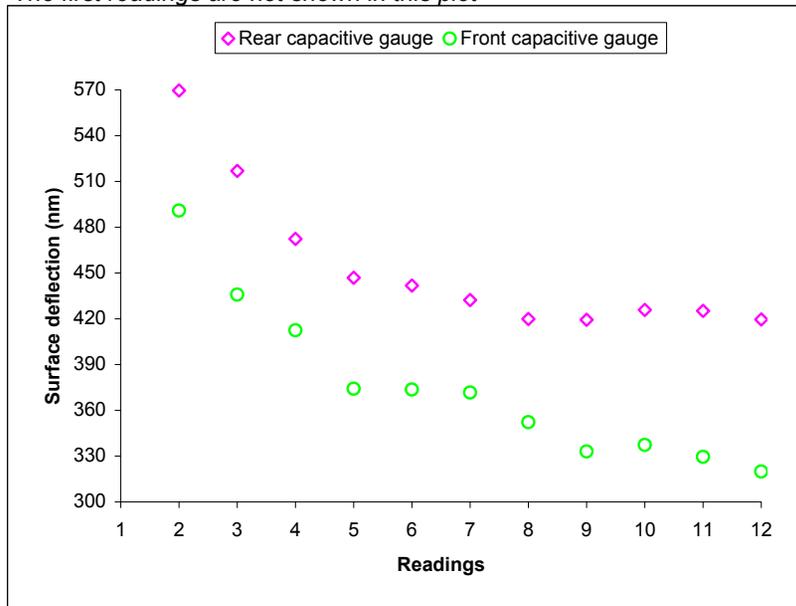


RESULTS OF LAST SIX READINGS			
4.806	Ave. change of load	Ave. resultant deflec.	153.9
		and its standard devia.	9.7

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A2D SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.41209	1.53043	7.23975	6.66011	7.11096	6.60269	32.721	8984.4	8386.5	8685.5
2	1.45568	1.52853	6.68038	6.64363	6.61186	6.58211	20.143	569.6	490.9	530.3
3	1.45656	1.52717	6.67425	6.64090	6.60587	6.57946	19.524	516.9	435.8	476.4
4	1.45672	1.52723	6.67042	6.63994	6.60242	6.57742	19.496	472.4	412.5	442.5
5	1.45936	1.52740	6.66700	6.63817	6.59916	6.57648	18.813	446.9	374.2	410.6
6	1.45982	1.52758	6.66524	6.63674	6.59709	6.57444	18.736	441.8	373.7	407.8
7	1.45813	1.52646	6.66465	6.63676	6.59640	6.57387	18.893	432.3	371.7	402.0
8	1.45877	1.52578	6.66289	6.63580	6.59458	6.57323	18.528	419.9	352.3	386.1
9	1.45962	1.52606	6.66066	6.63360	6.59245	6.57226	18.371	419.4	333.1	376.3
10	1.45904	1.52649	6.66014	6.63267	6.59187	6.57142	18.650	425.8	337.4	381.6
11	1.45958	1.52636	6.65971	6.63228	6.59116	6.57119	18.465	425.2	329.5	377.4
12	1.46014	1.52621	6.65873	6.63166	6.59031	6.57092	18.268	419.6	319.9	369.8
								423.7	340.7	

The first readings are not shown in this plot

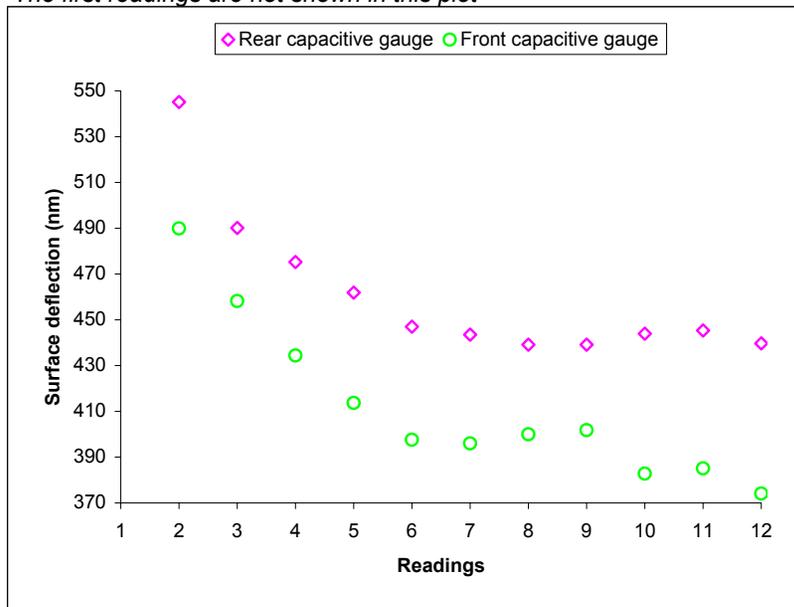


RESULTS OF LAST SIX READINGS			
18.529	Ave. change of load	Ave. resultant deflec.	382.2
		and its standard devia.	11.1

SAME-POINT REPEATED CONTACTS WITH 5MM TIP ON A2D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.40878	1.61087	7.26754	6.92017	7.13338	6.81038	55.878	5384.2	5329.5	5356.9
2	1.45696	1.60896	6.94938	6.91421	6.83613	6.80644	42.028	545.1	489.9	517.5
3	1.45947	1.60814	6.94335	6.91173	6.83206	6.80429	41.107	490.1	458.2	474.2
4	1.46074	1.60818	6.94052	6.90986	6.82913	6.80280	40.767	475.2	434.4	454.8
5	1.46214	1.60826	6.93860	6.90880	6.82745	6.80238	40.402	461.9	413.7	437.8
6	1.46156	1.60791	6.93764	6.90880	6.82648	6.80238	40.466	447.0	397.6	422.3
7	1.46157	1.60711	6.93611	6.90750	6.82613	6.80213	40.242	443.5	396.0	419.8
8	1.46108	1.60616	6.93514	6.90681	6.82542	6.80118	40.115	439.1	400.0	419.6
9	1.46250	1.60680	6.93422	6.90589	6.82480	6.80045	39.899	439.1	401.8	420.5
10	1.46269	1.60720	6.93376	6.90512	6.82383	6.80063	39.957	443.9	382.8	413.4
11	1.46284	1.60718	6.93341	6.90468	6.82315	6.79981	39.910	445.3	385.1	415.2
12	1.46391	1.60664	6.93281	6.90444	6.82246	6.79979	39.465	439.7	374.1	406.9
								441.8	390.0	

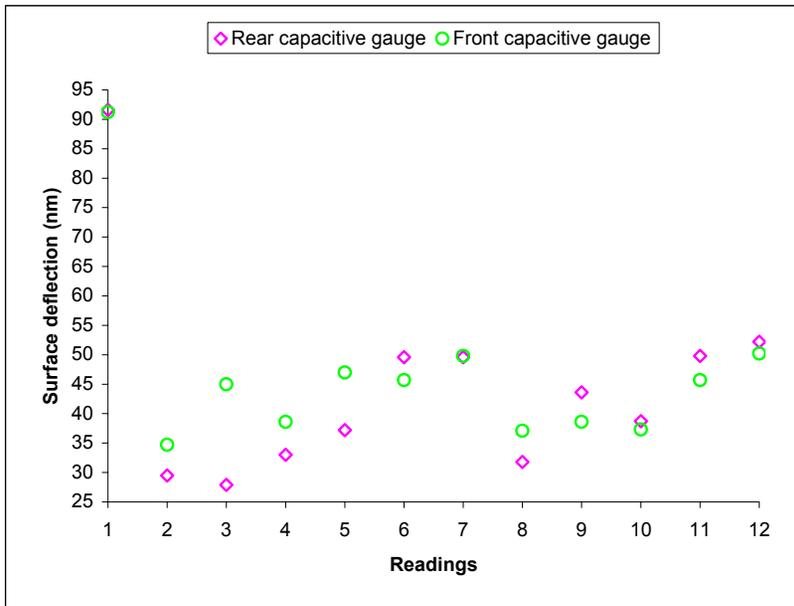
The first readings are not shown in this plot



RESULTS OF LAST SIX READINGS			
39.931	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	415.9
		<i>and its standard devia.</i>	5.2

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S1C SURFACE USING 15g DEAD-WEIGHT

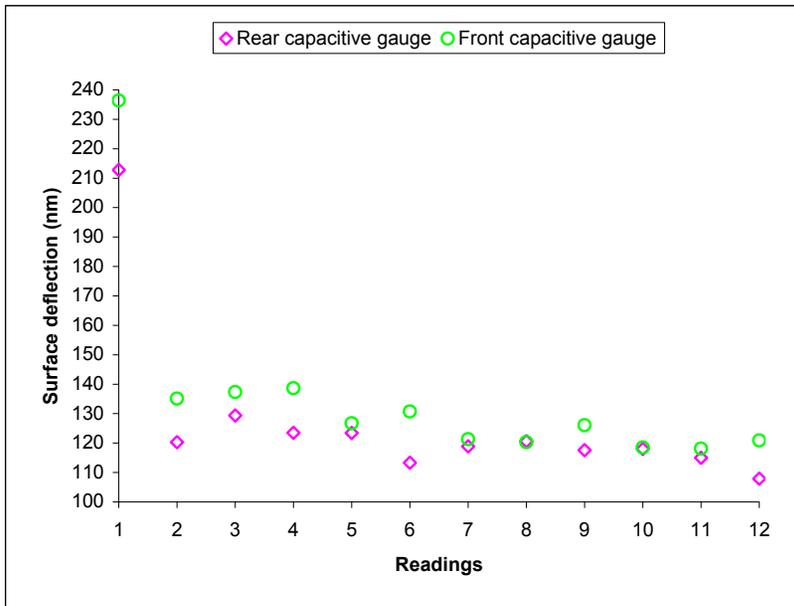
Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.48594	1.53900	7.15352	7.14761	7.22108	7.21555	14.671	91.6	91.2	91.4
2	1.50543	1.53935	7.14951	7.14761	7.21743	7.21533	9.379	29.5	34.7	32.1
3	1.50753	1.53977	7.14873	7.14693	7.21720	7.21447	8.914	27.9	45.0	36.5
4	1.50740	1.54024	7.14879	7.14666	7.21729	7.21495	9.080	33.0	38.6	35.8
5	1.50793	1.54011	7.14904	7.14664	7.21774	7.21489	8.898	37.2	47.0	42.1
6	1.50817	1.54101	7.14935	7.14615	7.21689	7.21412	9.080	49.6	45.7	47.7
7	1.51008	1.54129	7.14823	7.14503	7.21676	7.21374	8.630	49.6	49.8	49.7
8	1.50988	1.54004	7.14788	7.14583	7.21669	7.21444	8.339	31.8	37.1	34.5
9	1.50973	1.53954	7.14841	7.14560	7.21682	7.21448	8.242	43.6	38.6	41.1
10	1.50954	1.54106	7.14840	7.14590	7.21680	7.21454	8.715	38.7	37.3	38.0
11	1.50754	1.54026	7.14837	7.14516	7.21689	7.21412	9.047	49.8	45.7	47.8
12	1.51362	1.54371	7.14815	7.14478	7.21668	7.21364	8.320	52.2	50.2	51.2
								44.3		
									43.1	



RESULTS OF LAST SIX READINGS			
8.549	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	43.7
		<i>and its standard devia.</i>	6.8

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S1C SURFACE USING 35g DEAD-WEIGHT

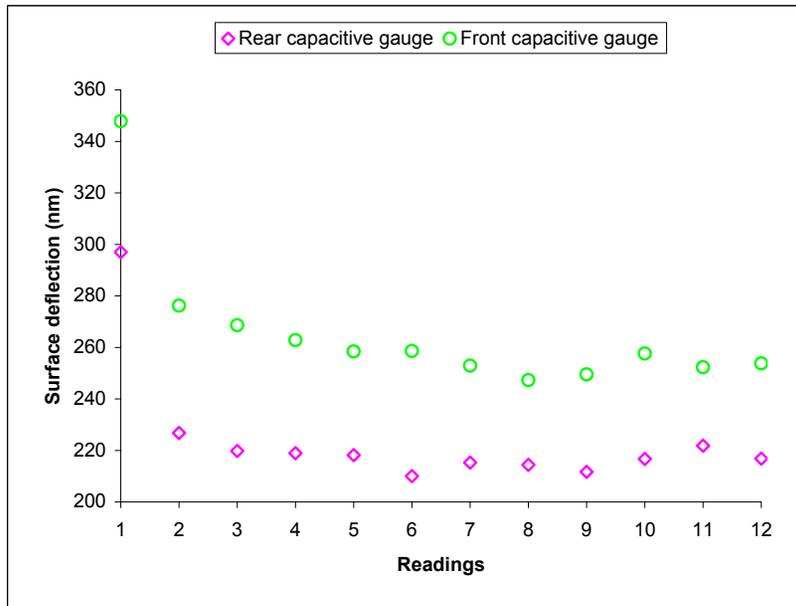
Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.48665	1.61012	7.45323	7.43950	7.49482	7.48049	34.140	212.8	236.4	224.6
2	1.51232	1.61004	7.44642	7.43866	7.48855	7.48036	27.020	120.3	135.1	127.7
3	1.51338	1.60889	7.44611	7.43776	7.48866	7.48034	26.409	129.4	137.3	133.4
4	1.51519	1.60985	7.44574	7.43777	7.48887	7.48047	26.174	123.5	138.6	131.1
5	1.51644	1.61034	7.44550	7.43754	7.48806	7.48038	25.963	123.4	126.7	125.1
6	1.51620	1.60966	7.44465	7.43734	7.48831	7.48039	25.842	113.3	130.7	122.0
7	1.51789	1.61090	7.44483	7.43716	7.48768	7.48033	25.717	118.9	121.3	120.1
8	1.51662	1.61029	7.44483	7.43705	7.48766	7.48037	25.900	120.6	120.3	120.5
9	1.51919	1.61138	7.44360	7.43601	7.48726	7.47962	25.491	117.6	126.1	121.9
10	1.51730	1.61052	7.44450	7.43689	7.48753	7.48035	25.775	118.0	118.5	118.3
11	1.51776	1.61079	7.44420	7.43678	7.48738	7.48022	25.723	115.0	118.1	116.6
12	1.51869	1.61015	7.44399	7.43703	7.48722	7.47989	25.289	107.9	120.9	114.4
								116.3	120.9	



RESULTS OF LAST SIX READINGS			
25.649	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	118.6
		<i>and its standard devia.</i>	2.8

SAME-POINT REPEATED CONTACTS WITH **3MM** TIP ON **S1C** SURFACE USING **55g** DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.48368	1.68455	7.14386	7.12470	7.21105	7.18997	55.541	297.0	347.8	322.4
2	1.51477	1.68435	7.13856	7.12393	7.20620	7.18946	46.889	226.8	276.2	251.5
3	1.51771	1.68501	7.13766	7.12348	7.20563	7.18935	46.259	219.8	268.6	244.2
4	1.51793	1.68464	7.13732	7.12320	7.20517	7.18924	46.095	218.9	262.8	240.9
5	1.52039	1.68458	7.13657	7.12249	7.20516	7.18950	45.399	218.2	258.4	238.3
6	1.51954	1.68501	7.13634	7.12279	7.20543	7.18976	45.753	210.0	258.6	234.3
7	1.51976	1.68490	7.13619	7.12230	7.20426	7.18893	45.661	215.3	252.9	234.1
8	1.51936	1.68469	7.13612	7.12229	7.20397	7.18898	45.714	214.4	247.3	230.9
9	1.52245	1.68590	7.13562	7.12196	7.20457	7.18945	45.194	211.7	249.5	230.6
10	1.52241	1.68516	7.13548	7.12150	7.20439	7.18878	45.001	216.7	257.6	237.2
11	1.52074	1.68568	7.13540	7.12109	7.20450	7.18921	45.606	221.8	252.3	237.1
12	1.52196	1.68518	7.13518	7.12119	7.20404	7.18866	45.131	216.8	253.8	235.3
								216.1	252.2	

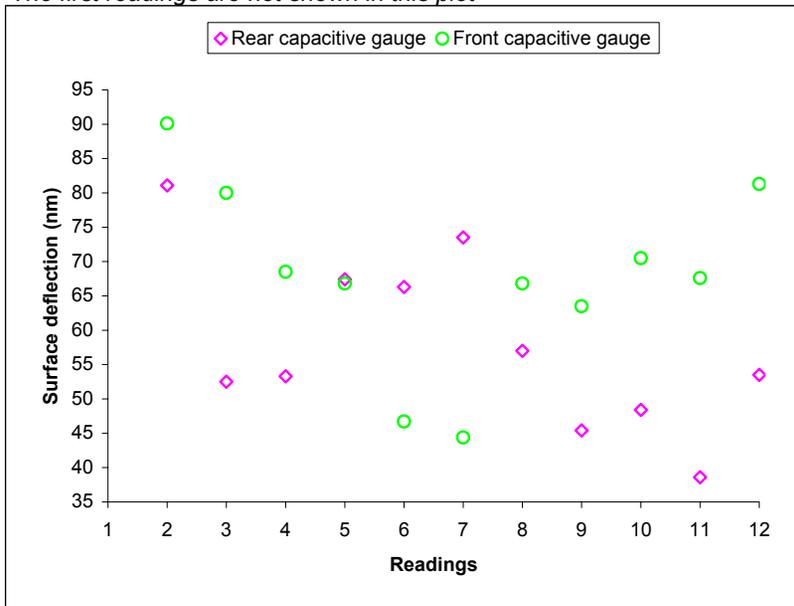


RESULTS OF LAST SIX READINGS			
45.385	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	234.2
		<i>and its standard devia.</i>	2.9

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S1D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.51410	1.56569	6.77983	6.54437	6.86968	6.64336	14.265	3649.6	3734.3	3692.0
2	1.53816	1.56691	6.52916	6.52393	6.63039	6.62493	7.949	81.1	90.1	85.6
3	1.53967	1.56720	6.52539	6.52200	6.62659	6.62174	7.612	52.5	80.0	66.3
4	1.53986	1.56682	6.52353	6.52009	6.62530	6.62115	7.454	53.3	68.5	60.9
5	1.54059	1.56722	6.52268	6.51833	6.62460	6.62055	7.363	67.4	66.8	67.1
6	1.54209	1.56761	6.52109	6.51681	6.62286	6.62003	7.056	66.3	46.7	56.5
7	1.54119	1.56809	6.51973	6.51499	6.62148	6.61879	7.438	73.5	44.4	59.0
8	1.54166	1.56910	6.51864	6.51496	6.62120	6.61715	7.587	57.0	66.8	61.9
9	1.54115	1.56754	6.51452	6.51159	6.61873	6.61488	7.297	45.4	63.5	54.5
10	1.54135	1.56886	6.51666	6.51354	6.62079	6.61652	7.607	48.4	70.5	59.5
11	1.54211	1.56819	6.51559	6.51310	6.61992	6.61582	7.211	38.6	67.6	53.1
12	1.54074	1.56786	6.51518	6.51173	6.61982	6.61489	7.499	53.5	81.3	67.4
								52.7		
									65.7	

The first readings are not shown in this plot

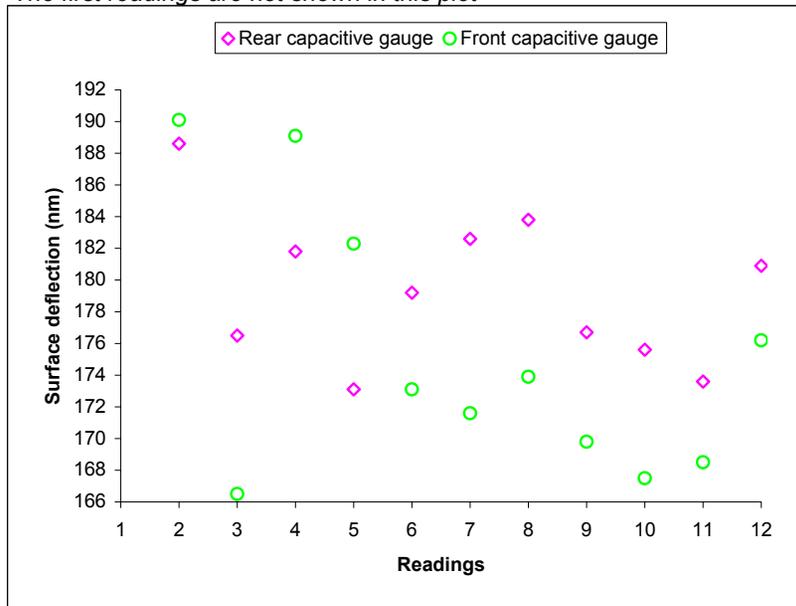


RESULTS OF LAST SIX READINGS			
7.440	Ave. change of load	Ave. resultant deflec.	59.2
		and its standard devia.	5.2

SAME-POINT REPEATED CONTACTS WITH **3MM** TIP ON **S1D** SURFACE USING **35g** DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.51982	1.64984	6.97795	6.92214	7.02892	6.97269	35.951	865.1	927.8	896.5
2	1.55227	1.65049	6.93108	6.91891	6.98162	6.97010	27.158	188.6	190.1	189.4
3	1.55392	1.64971	6.92988	6.91849	6.98072	6.97063	26.486	176.5	166.5	171.5
4	1.55571	1.65088	6.92944	6.91771	6.98049	6.96903	26.315	181.8	189.1	185.5
5	1.55380	1.65015	6.92895	6.91778	6.98001	6.96896	26.641	173.1	182.3	177.7
6	1.55436	1.65064	6.92874	6.91718	6.97897	6.96848	26.622	179.2	173.1	176.2
7	1.55585	1.65039	6.92824	6.91646	6.97876	6.96836	26.140	182.6	171.6	177.1
8	1.55468	1.65050	6.92829	6.91643	6.97877	6.96823	26.494	183.8	173.9	178.9
9	1.55747	1.65019	6.92724	6.91584	6.97820	6.96791	25.637	176.7	169.8	173.3
10	1.55543	1.64964	6.92726	6.91593	6.97794	6.96779	26.049	175.6	167.5	171.6
11	1.55638	1.64948	6.92653	6.91533	6.97781	6.96760	25.742	173.6	168.5	171.1
12	1.55709	1.65150	6.92706	6.91539	6.97754	6.96686	26.104	180.9	176.2	178.6
								178.9	171.3	

The first readings are not shown in this plot

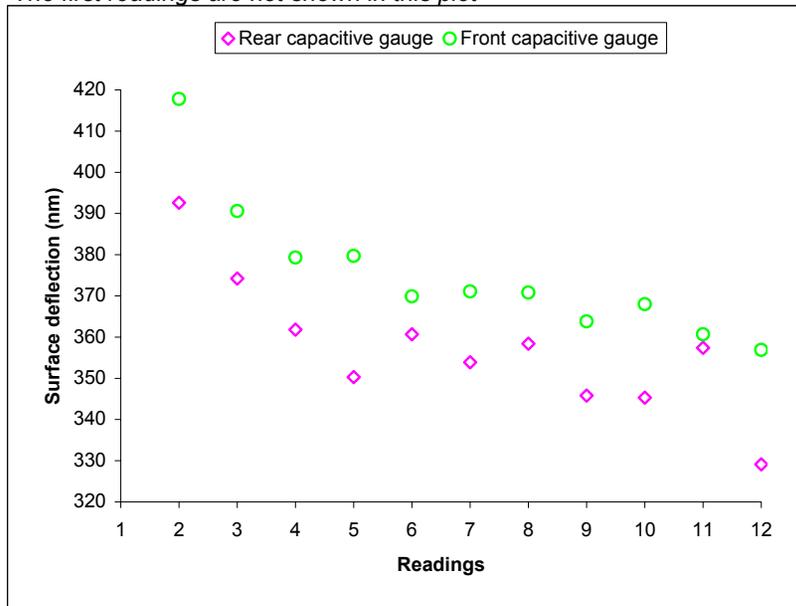


RESULTS OF LAST SIX READINGS			
26.028	Ave. change of load	Ave. resultant deflec.	175.1
		and its standard devia.	3.5

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S1D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.52001	1.72491	6.67088	6.40001	6.77603	6.51262	56.655	4198.5	4346.3	4272.4
2	1.55348	1.72457	6.41501	6.38968	6.53042	6.50510	47.307	392.6	417.8	405.2
3	1.55725	1.72571	6.41087	6.38673	6.52741	6.50374	46.579	374.2	390.6	382.4
4	1.55655	1.72546	6.40935	6.38601	6.52576	6.50277	46.704	361.8	379.3	370.6
5	1.55873	1.72539	6.40649	6.38389	6.52363	6.50062	46.082	350.3	379.7	365.0
6	1.55851	1.72573	6.40603	6.38276	6.52281	6.50039	46.237	360.7	369.9	365.3
7	1.55915	1.72609	6.40488	6.38205	6.52198	6.49949	46.159	353.9	371.1	362.5
8	1.55834	1.72637	6.40369	6.38057	6.52082	6.49835	46.460	358.4	370.8	364.6
9	1.55895	1.72614	6.40287	6.38056	6.52013	6.49808	46.228	345.8	363.8	354.8
10	1.55904	1.72672	6.40153	6.37925	6.51987	6.49757	46.364	345.3	368.0	356.7
11	1.55874	1.72591	6.40157	6.37851	6.51882	6.49696	46.223	357.4	360.7	359.1
12	1.55876	1.72541	6.39981	6.37858	6.51802	6.49639	46.079	329.1	356.9	343.0
								348.3	365.2	

The first readings are not shown in this plot

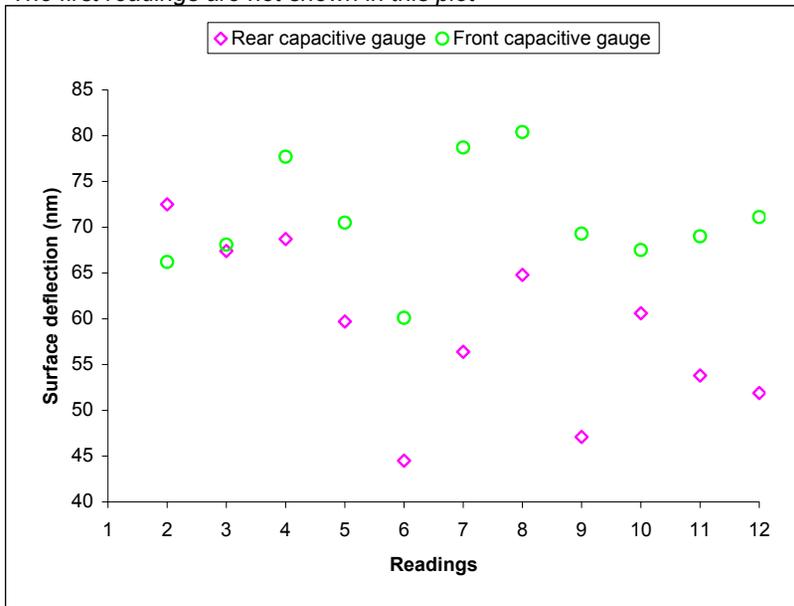


RESULTS OF LAST SIX READINGS			
46.252	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	356.8
		<i>and its standard devia.</i>	7.7

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S2C SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.53698	1.58665	7.27948	7.23761	7.27125	7.22938	13.734	649.0	690.9	670.0
2	1.56247	1.58806	7.23682	7.23214	7.22873	7.22472	7.076	72.5	66.2	69.4
3	1.56385	1.58648	7.23557	7.23122	7.22688	7.22275	6.257	67.4	68.1	67.8
4	1.56347	1.58661	7.23440	7.22997	7.22658	7.22187	6.398	68.7	77.7	73.2
5	1.56319	1.58711	7.23341	7.22956	7.22598	7.22171	6.614	59.7	70.5	65.1
6	1.56430	1.58809	7.23229	7.22942	7.22520	7.22156	6.578	44.5	60.1	52.3
7	1.56399	1.58842	7.23189	7.22825	7.22433	7.21956	6.755	56.4	78.7	67.6
8	1.56411	1.58769	7.23147	7.22729	7.22380	7.21893	6.520	64.8	80.4	72.6
9	1.56522	1.58874	7.22999	7.22695	7.22254	7.21834	6.503	47.1	69.3	58.2
10	1.56614	1.58859	7.23021	7.22630	7.22175	7.21766	6.207	60.6	67.5	64.1
11	1.56579	1.58852	7.23000	7.22653	7.22158	7.21740	6.285	53.8	69.0	61.4
12	1.56539	1.58873	7.22978	7.22643	7.22168	7.21737	6.454	51.9	71.1	61.5
								55.8	72.7	

The first readings are not shown in this plot

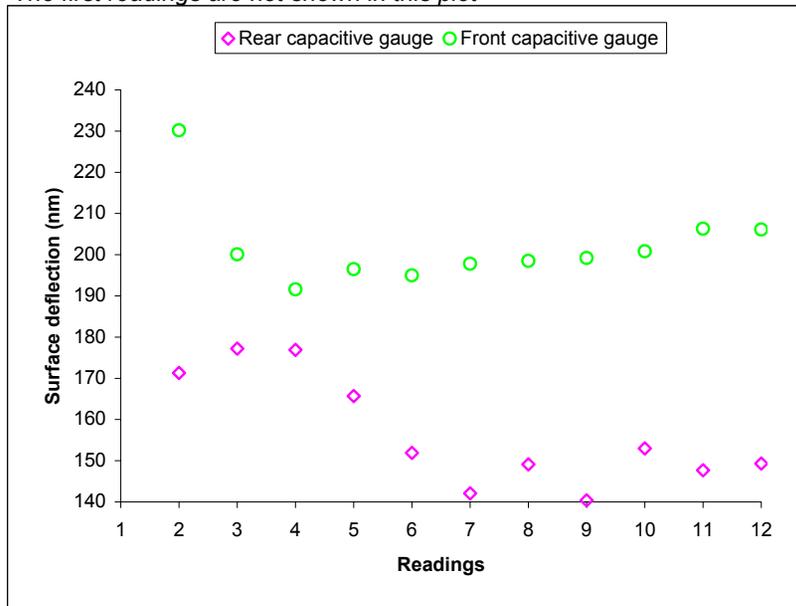


RESULTS OF LAST SIX READINGS			
6.454	Ave. change of load	Ave. resultant deflec.	64.2
		and its standard devia.	5.2

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S2C SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.54112	1.67031	6.78704	6.73702	6.85369	6.79938	35.721	775.3	896.1	835.7
2	1.59547	1.66890	6.74442	6.73337	6.81088	6.79693	20.303	171.3	230.2	200.8
3	1.59691	1.66847	6.74263	6.73120	6.80834	6.79621	19.786	177.2	200.1	188.7
4	1.59717	1.66726	6.74196	6.73055	6.80747	6.79586	19.380	176.9	191.6	184.3
5	1.59771	1.66622	6.74115	6.73046	6.80705	6.79514	18.943	165.7	196.5	181.1
6	1.59816	1.66615	6.74039	6.73059	6.80670	6.79488	18.799	151.9	195.0	173.5
7	1.59789	1.66643	6.73910	6.72993	6.80607	6.79408	18.951	142.1	197.8	170.0
8	1.59925	1.66501	6.73895	6.72933	6.80530	6.79327	18.183	149.1	198.5	173.8
9	1.59861	1.66649	6.73868	6.72962	6.80472	6.79265	18.769	140.4	199.2	169.8
10	1.59815	1.66613	6.73857	6.72870	6.80440	6.79223	18.797	153.0	200.8	176.9
11	1.59871	1.66518	6.73777	6.72824	6.80309	6.79059	18.379	147.7	206.3	177.0
12	1.59772	1.66530	6.73771	6.72808	6.80248	6.78999	18.686	149.3	206.1	177.7
								146.9	201.5	

The first readings are not shown in this plot

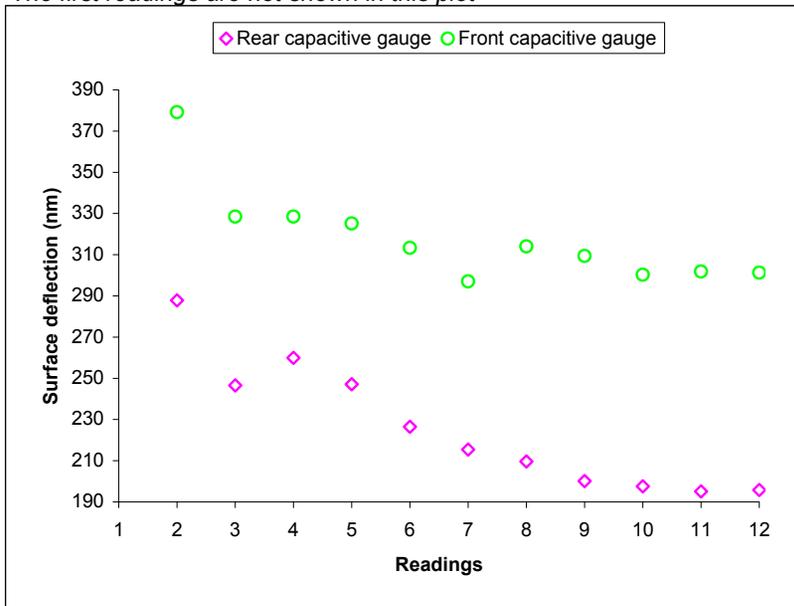


RESULTS OF LAST SIX READINGS			
18.628	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	174.2
		<i>and its standard devia.</i>	3.6

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S2C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.53689	1.73873	7.01160	6.94346	6.97835	6.90444	55.809	1056.2	1219.5	1137.9
2	1.59586	1.73564	6.95662	6.93805	6.92272	6.89974	38.649	287.8	379.2	333.5
3	1.60183	1.73669	6.95334	6.93743	6.91959	6.89968	37.289	246.6	328.5	287.6
4	1.60487	1.73458	6.95215	6.93538	6.91874	6.89883	35.865	259.9	328.5	294.2
5	1.60546	1.73420	6.94998	6.93404	6.91778	6.89807	35.597	247.1	325.2	286.2
6	1.60709	1.73353	6.94831	6.93370	6.91676	6.89777	34.961	226.5	313.3	269.9
7	1.60842	1.73240	6.94736	6.93346	6.91559	6.89759	34.281	215.4	297.0	256.2
8	1.60834	1.73340	6.94681	6.93329	6.91617	6.89714	34.579	209.6	314.0	261.8
9	1.61012	1.73357	6.94572	6.93281	6.91571	6.89696	34.134	200.1	309.4	254.8
10	1.60805	1.73231	6.94511	6.93236	6.91502	6.89682	34.358	197.6	300.3	249.0
11	1.60886	1.73218	6.94462	6.93203	6.91471	6.89642	34.098	195.1	301.8	248.5
12	1.60821	1.73087	6.94426	6.93163	6.91462	6.89636	33.916	195.8	301.3	248.6
								202.3	304.0	

The first readings are not shown in this plot

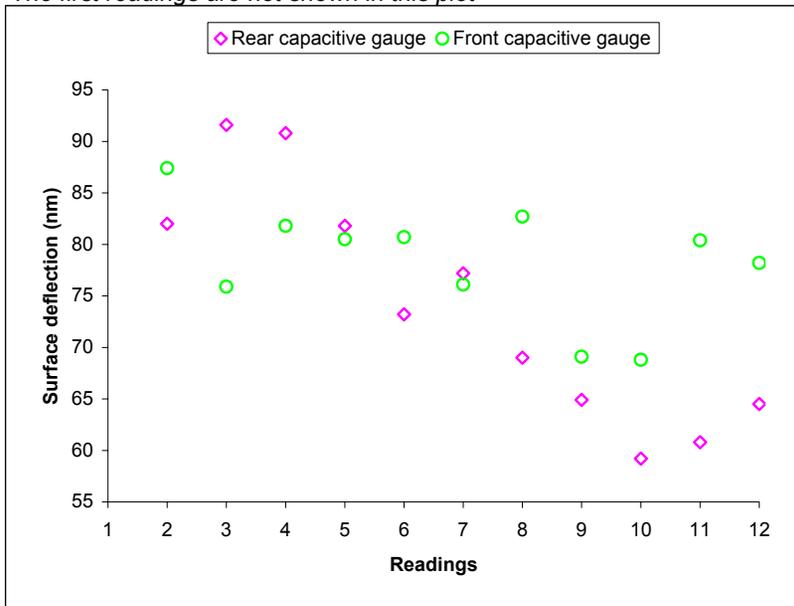


RESULTS OF LAST SIX READINGS			
34.228	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	253.1
		<i>and its standard devia.</i>	5.4

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S2D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.54589	1.59942	7.08947	6.90572	7.14908	6.97545	14.801	2848.1	2864.9	2856.5
2	1.56816	1.60091	6.90507	6.89978	6.97580	6.97050	9.055	82.0	87.4	84.7
3	1.56986	1.60108	6.90364	6.89773	6.97326	6.96866	8.632	91.6	75.9	83.8
4	1.56944	1.60101	6.90261	6.89675	6.97280	6.96784	8.729	90.8	81.8	86.3
5	1.57260	1.60224	6.90044	6.89516	6.97195	6.96707	8.195	81.8	80.5	81.2
6	1.57162	1.60190	6.90007	6.89535	6.97138	6.96649	8.372	73.2	80.7	77.0
7	1.57087	1.60268	6.89964	6.89466	6.97076	6.96615	8.795	77.2	76.1	76.7
8	1.57270	1.60240	6.89891	6.89446	6.97077	6.96576	8.212	69.0	82.7	75.9
9	1.57418	1.60361	6.89646	6.89227	6.96801	6.96382	8.137	64.9	69.1	67.0
10	1.57358	1.60397	6.89739	6.89357	6.96860	6.96443	8.403	59.2	68.8	64.0
11	1.57336	1.60344	6.89711	6.89319	6.96869	6.96382	8.317	60.8	80.4	70.6
12	1.57316	1.60252	6.89703	6.89287	6.96895	6.96421	8.118	64.5	78.2	71.4
								65.9	75.9	

The first readings are not shown in this plot

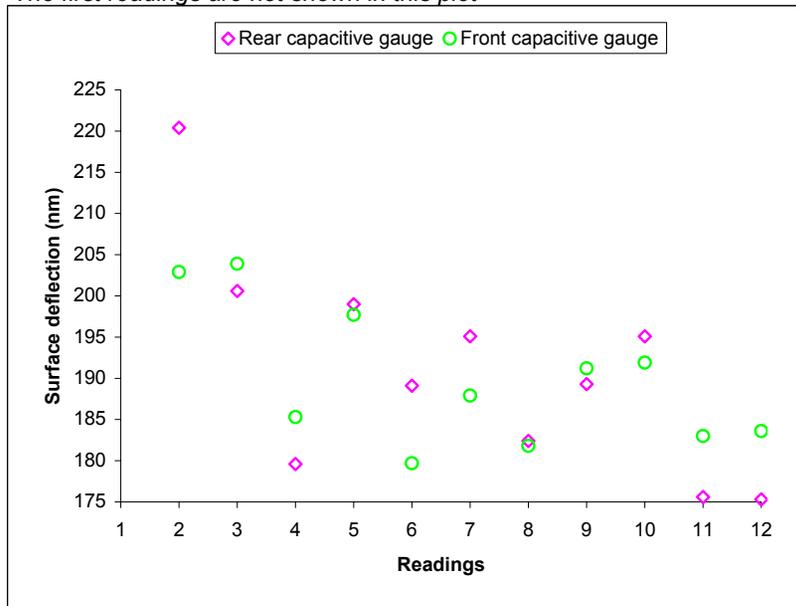


RESULTS OF LAST SIX READINGS			
8.330	Ave. change of load	Ave. resultant deflec.	70.9
		and its standard devia.	4.9

SAME-POINT REPEATED CONTACTS WITH **3MM** TIP ON **S2D** SURFACE USING **35g** DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.54919	1.68105	7.05966	6.76675	7.11969	6.83996	36.459	4540.1	4615.5	4577.8
2	1.58162	1.68221	6.77319	6.75897	6.84589	6.83359	27.813	220.4	202.9	211.7
3	1.58103	1.68084	6.77064	6.75770	6.84469	6.83233	27.598	200.6	203.9	202.3
4	1.58375	1.68142	6.76801	6.75642	6.84245	6.83122	27.006	179.6	185.3	182.5
5	1.58206	1.68064	6.76809	6.75525	6.84261	6.83063	27.257	199.0	197.7	198.4
6	1.58368	1.68067	6.76688	6.75468	6.84100	6.83011	26.818	189.1	179.7	184.4
7	1.58381	1.68020	6.76686	6.75427	6.84102	6.82963	26.652	195.1	187.9	191.5
8	1.58262	1.67870	6.76560	6.75383	6.84051	6.82949	26.566	182.4	181.8	182.1
9	1.58449	1.67999	6.76523	6.75302	6.84054	6.82895	26.406	189.3	191.2	190.3
10	1.58301	1.67971	6.76565	6.75306	6.84042	6.82879	26.738	195.1	191.9	193.5
11	1.58527	1.67950	6.76412	6.75279	6.83961	6.82852	26.055	175.6	183.0	179.3
12	1.58626	1.68010	6.76388	6.75257	6.83940	6.82827	25.947	175.3	183.6	179.5
								185.5	186.6	

The first readings are not shown in this plot

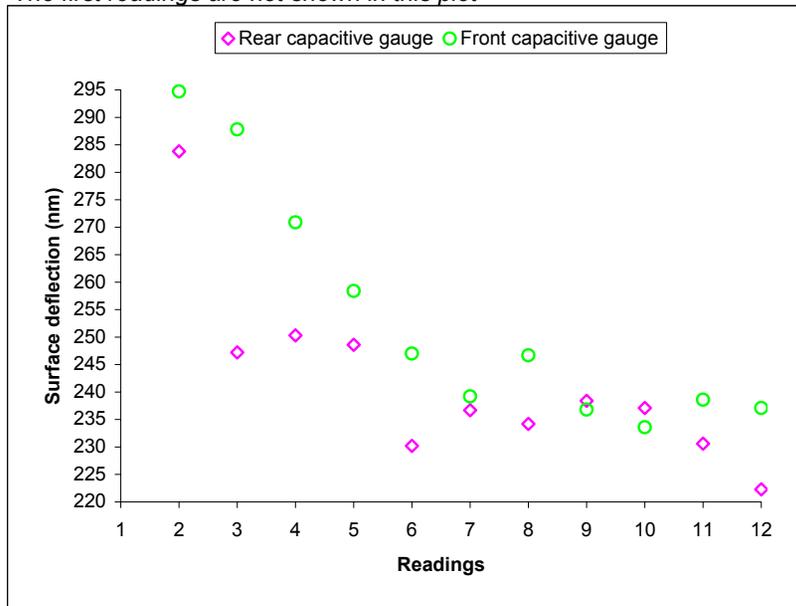


RESULTS OF LAST SIX READINGS			
26.394	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	186.0
		<i>and its standard devia.</i>	6.4

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON S2D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.54034	1.72532	7.58610	7.15604	7.58280	7.17569	51.147	6665.9	6717.3	6691.6
2	1.58890	1.72404	7.15903	7.14072	7.18108	7.16322	37.366	283.8	294.7	289.3
3	1.59334	1.72355	7.15400	7.13805	7.17696	7.15952	36.003	247.2	287.8	267.5
4	1.59651	1.72366	7.15248	7.13633	7.17480	7.15838	35.157	250.3	270.9	260.6
5	1.59708	1.72342	7.15093	7.13489	7.17347	7.15781	34.933	248.6	258.4	253.5
6	1.59710	1.72248	7.14869	7.13384	7.17202	7.15705	34.668	230.2	247.0	238.6
7	1.59838	1.72190	7.14840	7.13313	7.17075	7.15625	34.153	236.7	239.2	238.0
8	1.59776	1.72192	7.14729	7.13218	7.17021	7.15526	34.330	234.2	246.7	240.5
9	1.59987	1.72164	7.14669	7.13131	7.16899	7.15464	33.670	238.4	236.8	237.6
10	1.59994	1.72245	7.14576	7.13046	7.16830	7.15414	33.874	237.1	233.6	235.4
11	1.60002	1.72183	7.14471	7.12983	7.16809	7.15363	33.681	230.6	238.6	234.6
12	1.60091	1.72245	7.14375	7.12941	7.16785	7.15348	33.606	222.3	237.1	229.7
								233.2	238.7	

The first readings are not shown in this plot

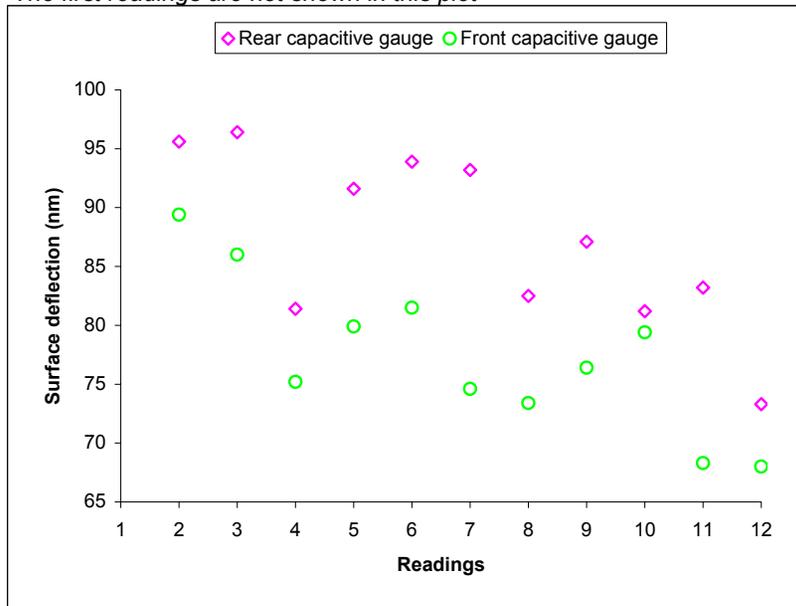


RESULTS OF LAST SIX READINGS			
33.886	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	235.9
		<i>and its standard devia.</i>	3.7

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A1C SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50085	1.54350	6.99056	6.96299	6.99588	6.97332	11.793	427.3	372.2	399.8
2	1.51631	1.54522	6.96828	6.96211	6.97838	6.97296	7.994	95.6	89.4	92.5
3	1.51801	1.54611	6.96765	6.96143	6.97783	6.97262	7.770	96.4	86.0	91.2
4	1.51765	1.54399	6.96638	6.96113	6.97725	6.97269	7.283	81.4	75.2	78.3
5	1.51922	1.54603	6.96682	6.96091	6.97748	6.97264	7.413	91.6	79.9	85.8
6	1.51754	1.54491	6.96676	6.96070	6.97755	6.97261	7.568	93.9	81.5	87.7
7	1.51945	1.54564	6.96583	6.95982	6.97681	6.97229	7.242	93.2	74.6	83.9
8	1.51909	1.54466	6.96556	6.96024	6.97713	6.97268	7.070	82.5	73.4	78.0
9	1.51981	1.54591	6.96540	6.95978	6.97725	6.97262	7.217	87.1	76.4	81.8
10	1.51969	1.54459	6.96558	6.96034	6.97754	6.97273	6.885	81.2	79.4	80.3
11	1.52024	1.54531	6.96490	6.95953	6.97675	6.97261	6.932	83.2	68.3	75.8
12	1.52031	1.54525	6.96474	6.96001	6.97694	6.97282	6.896	73.3	68.0	70.7
								83.4	73.4	

The first readings are not shown in this plot

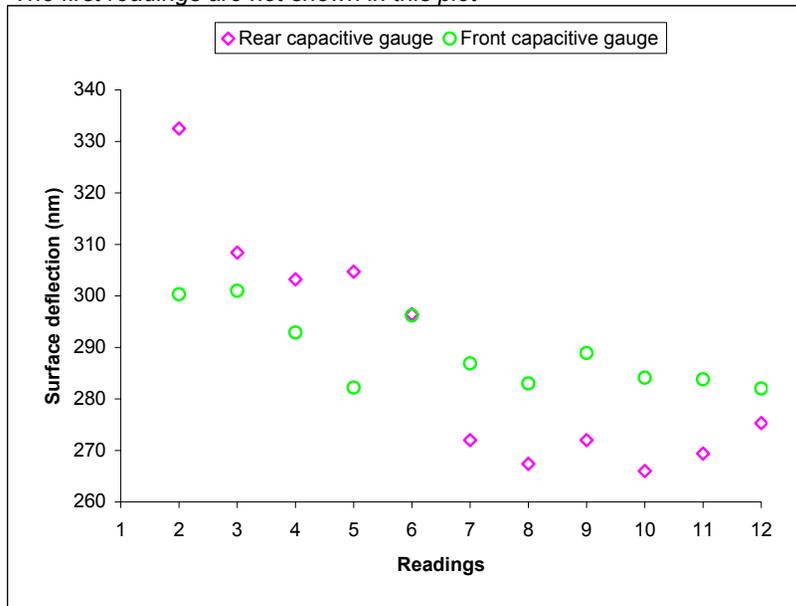


RESULTS OF LAST SIX READINGS			
7.040	<i>Ave. change of load</i>	<i>Ave. resultant deflec. and its standard devia.</i>	78.4
			4.7

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A1C SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50600	1.62770	6.89371	6.85468	6.90345	6.86822	33.650	605.0	581.3	593.2
2	1.52781	1.62785	6.87371	6.85226	6.88561	6.86741	27.661	332.5	300.3	316.4
3	1.53049	1.62901	6.87083	6.85093	6.88459	6.86635	27.241	308.4	301.0	304.7
4	1.52968	1.62763	6.86972	6.85016	6.88449	6.86674	27.083	303.2	292.9	298.1
5	1.52902	1.62823	6.86968	6.85002	6.88443	6.86733	27.432	304.7	282.2	293.5
6	1.53207	1.62872	6.86880	6.84968	6.88402	6.86607	26.724	296.4	296.2	296.3
7	1.53290	1.62927	6.86697	6.84942	6.88347	6.86608	26.646	272.0	286.9	279.5
8	1.53278	1.62897	6.86640	6.84915	6.88318	6.86603	26.597	267.4	283.0	275.2
9	1.53253	1.62873	6.86648	6.84893	6.88336	6.86585	26.599	272.0	288.9	280.5
10	1.53167	1.62735	6.86585	6.84869	6.88277	6.86555	26.456	266.0	284.1	275.1
11	1.53063	1.62653	6.86581	6.84843	6.88299	6.86579	26.516	269.4	283.8	276.6
12	1.53177	1.62732	6.86552	6.84776	6.88277	6.86568	26.420	275.3	282.0	278.7
								270.4	284.8	

The first readings are not shown in this plot

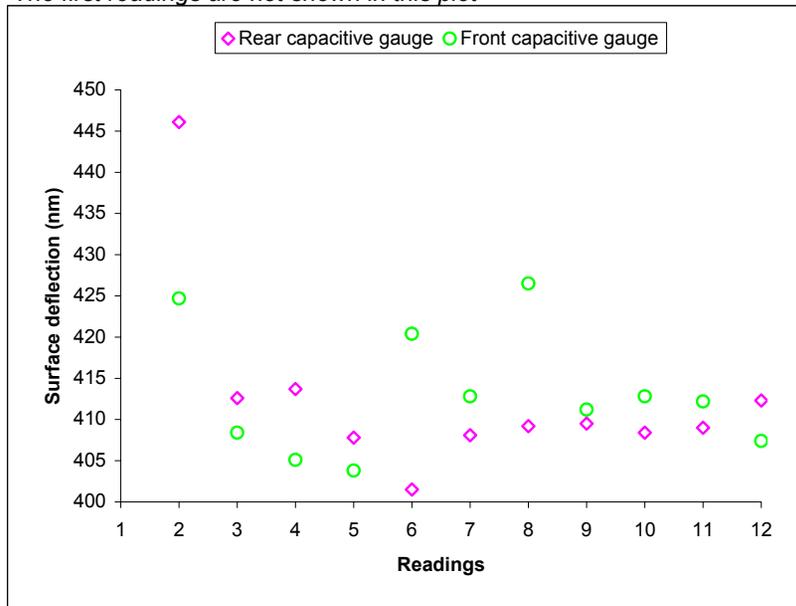


RESULTS OF LAST SIX READINGS			
26.539	Ave. change of load	Ave. resultant deflec.	277.6
		and its standard devia.	2.3

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A1C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50753	1.71219	6.69862	6.60698	6.73244	6.64368	56.589	1420.4	1464.5	1442.5
2	1.53721	1.71328	6.63060	6.60182	6.66501	6.63927	48.684	446.1	424.7	435.4
3	1.53767	1.71196	6.62747	6.60085	6.66230	6.63755	48.191	412.6	408.4	410.5
4	1.53832	1.71186	6.62624	6.59955	6.66082	6.63627	47.984	413.7	405.1	409.4
5	1.53975	1.71155	6.62369	6.59738	6.66002	6.63555	47.503	407.8	403.8	405.8
6	1.53957	1.71308	6.62265	6.59675	6.65992	6.63444	47.976	401.5	420.4	411.0
7	1.54057	1.71197	6.62263	6.59630	6.65883	6.63381	47.392	408.1	412.8	410.5
8	1.53963	1.71180	6.62265	6.59625	6.65949	6.63364	47.605	409.2	426.5	417.9
9	1.54039	1.71157	6.62150	6.59508	6.65855	6.63363	47.331	409.5	411.2	410.4
10	1.54028	1.71238	6.62132	6.59497	6.65776	6.63274	47.586	408.4	412.8	410.6
11	1.53977	1.71122	6.62108	6.59469	6.65754	6.63256	47.406	409.0	412.2	410.6
12	1.54179	1.71200	6.62096	6.59436	6.65677	6.63208	47.063	412.3	407.4	409.9
								409.4	413.8	

The first readings are not shown in this plot

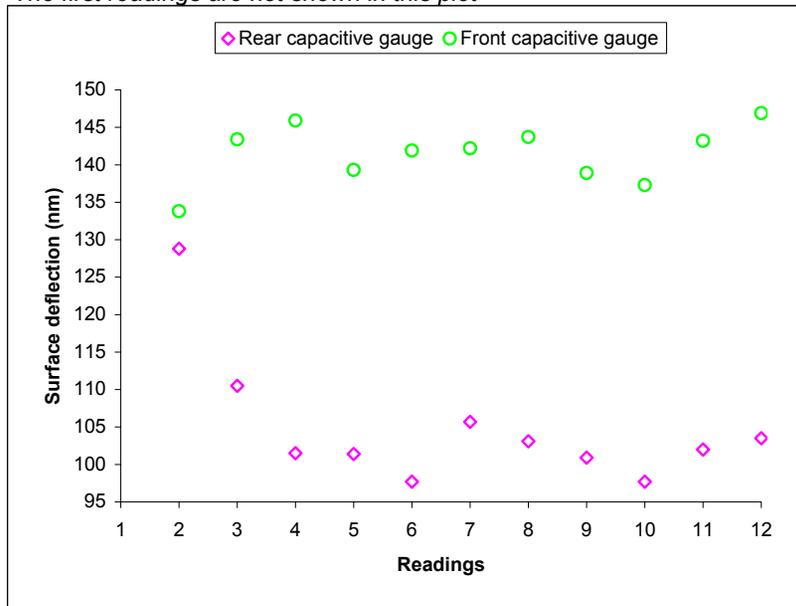


RESULTS OF LAST SIX READINGS			
47.397	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	411.6
		<i>and its standard devia.</i>	3.1

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A1D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.51025	1.55640	6.96264	6.92225	6.90846	6.87211	12.761	626.0	599.8	612.9
2	1.52588	1.55737	6.92767	6.91936	6.87578	6.86767	8.707	128.8	133.8	131.3
3	1.52782	1.55961	6.92528	6.91815	6.87501	6.86632	8.790	110.5	143.4	127.0
4	1.52860	1.55882	6.92449	6.91794	6.87485	6.86601	8.356	101.5	145.9	123.7
5	1.52932	1.56039	6.92399	6.91745	6.87468	6.86624	8.591	101.4	139.3	120.4
6	1.52860	1.55921	6.92379	6.91749	6.87465	6.86605	8.464	97.7	141.9	119.8
7	1.52820	1.55933	6.92384	6.91702	6.87453	6.86591	8.607	105.7	142.2	124.0
8	1.52768	1.55909	6.92348	6.91683	6.87437	6.86566	8.685	103.1	143.7	123.4
9	1.52803	1.55800	6.92353	6.91702	6.87422	6.86580	8.287	100.9	138.9	119.9
10	1.52947	1.55855	6.92290	6.91660	6.87427	6.86595	8.041	97.7	137.3	117.5
11	1.52897	1.55883	6.92316	6.91658	6.87472	6.86604	8.256	102.0	143.2	122.6
12	1.52924	1.55899	6.92311	6.91643	6.87476	6.86586	8.226	103.5	146.9	125.2
								102.2	142.0	

The first readings are not shown in this plot

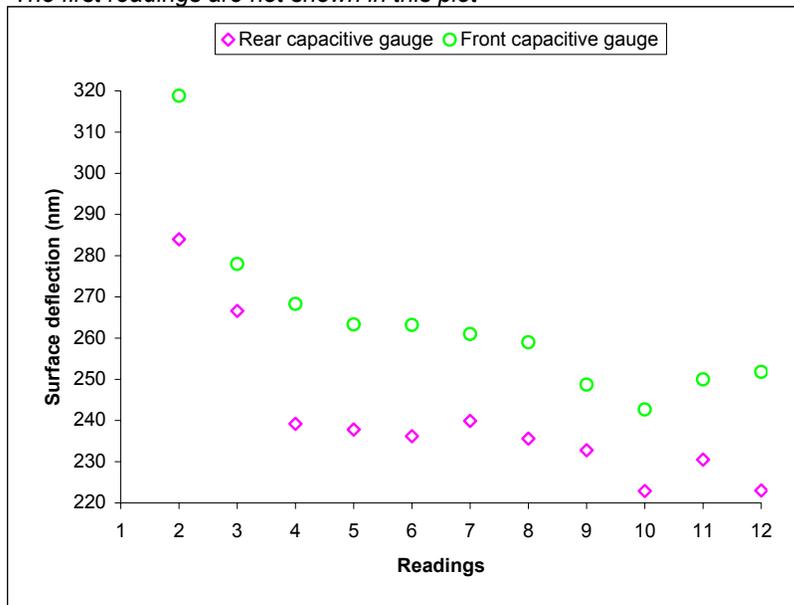


RESULTS OF LAST SIX READINGS			
8.350	Ave. change of load	Ave. resultant deflec.	122.1
		and its standard devia.	2.9

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A1D SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50686	1.63254	7.03102	6.89270	7.01148	6.87499	34.751	2144.0	2252.1	2198.1
2	1.53177	1.63301	6.90119	6.88287	6.88478	6.86546	27.993	284.0	318.8	301.4
3	1.53221	1.63091	6.89786	6.88066	6.88156	6.86471	27.291	266.6	278.0	272.3
4	1.53439	1.63222	6.89527	6.87984	6.87978	6.86352	27.050	239.2	268.3	253.8
5	1.53465	1.63210	6.89494	6.87960	6.87902	6.86306	26.945	237.8	263.3	250.6
6	1.53587	1.63141	6.89421	6.87897	6.87795	6.86200	26.417	236.2	263.2	249.7
7	1.53570	1.63137	6.89321	6.87773	6.87702	6.86120	26.453	239.9	261.0	250.5
8	1.53576	1.63204	6.89256	6.87736	6.87667	6.86097	26.622	235.6	259.0	247.3
9	1.53582	1.63195	6.89144	6.87642	6.87557	6.86050	26.580	232.8	248.7	240.8
10	1.53549	1.63200	6.89048	6.87610	6.87502	6.86031	26.685	222.9	242.7	232.8
11	1.53460	1.63177	6.89083	6.87596	6.87533	6.86018	26.868	230.5	250.0	240.3
12	1.53681	1.63196	6.88986	6.87547	6.87506	6.85980	26.309	223.0	251.8	237.4
								230.8	252.2	

The first readings are not shown in this plot

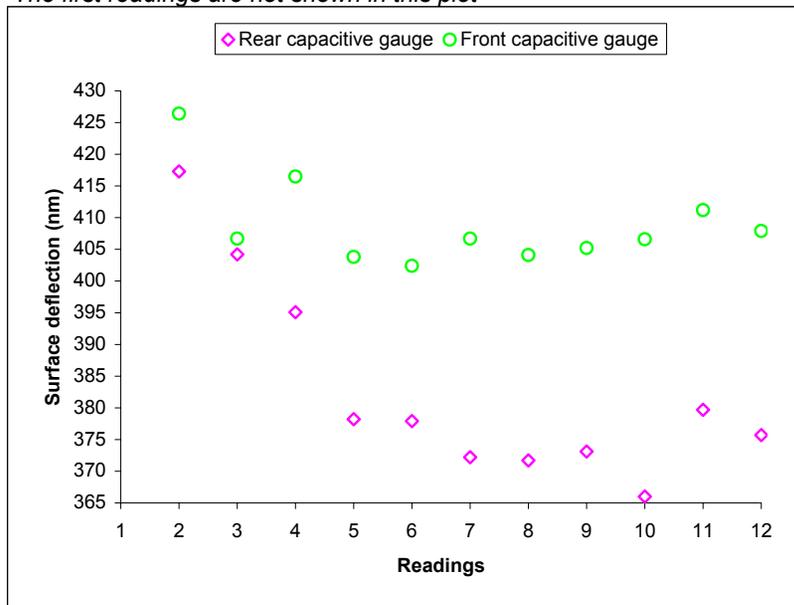


RESULTS OF LAST SIX READINGS			
26.586	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	241.5
		<i>and its standard devia.</i>	6.5

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A1D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.50706	1.71675	7.20443	6.67820	7.13279	6.63125	57.980	8156.6	8275.4	8216.0
2	1.53657	1.71756	6.69903	6.67211	6.65397	6.62813	50.044	417.3	426.4	421.9
3	1.53934	1.71771	6.69618	6.67010	6.65144	6.62679	49.319	404.2	406.7	405.5
4	1.53990	1.71844	6.69523	6.66974	6.65155	6.62631	49.367	395.1	416.5	405.8
5	1.54064	1.71745	6.69381	6.66941	6.65074	6.62627	48.888	378.2	403.8	391.0
6	1.54075	1.71846	6.69291	6.66853	6.65029	6.62590	49.137	377.9	402.4	390.2
7	1.53905	1.71796	6.69234	6.66833	6.65042	6.62577	49.469	372.2	406.7	389.5
8	1.54079	1.71786	6.69137	6.66739	6.65026	6.62577	48.960	371.7	404.1	387.9
9	1.54171	1.71803	6.69090	6.66683	6.65010	6.62554	48.753	373.1	405.2	389.2
10	1.54141	1.71823	6.69062	6.66701	6.65008	6.62544	48.891	366.0	406.6	386.3
11	1.54080	1.71807	6.69039	6.66589	6.64977	6.62485	49.015	379.7	411.2	395.5
12	1.54001	1.71751	6.69054	6.66630	6.65003	6.62531	49.079	375.7	407.9	391.8
								373.1	407.0	

The first readings are not shown in this plot

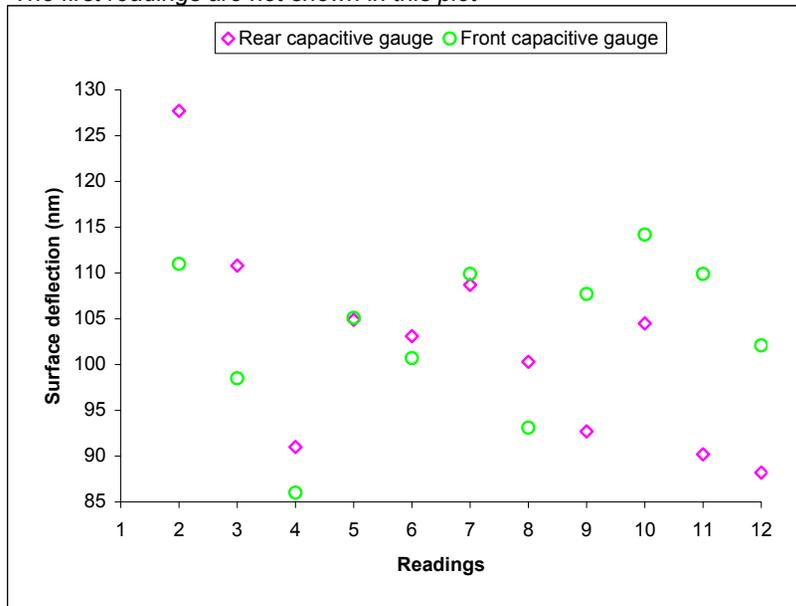


RESULTS OF LAST SIX READINGS			
49.028	Ave. change of load	Ave. resultant deflec.	390.0
		and its standard devia.	3.2

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A2C SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.47783	1.53172	7.15891	7.13380	7.13432	7.11039	14.901	389.2	394.8	392.0
2	1.49624	1.53189	7.13857	7.13033	7.11535	7.10862	9.857	127.7	111.0	119.4
3	1.49940	1.53300	7.13627	7.12912	7.11375	7.10778	9.290	110.8	98.5	104.7
4	1.49949	1.53234	7.13482	7.12895	7.11301	7.10780	9.083	91.0	86.0	88.5
5	1.49956	1.53235	7.13485	7.12808	7.11243	7.10606	9.066	104.9	105.1	105.0
6	1.50039	1.53478	7.13378	7.12713	7.11153	7.10543	9.509	103.1	100.7	101.9
7	1.50004	1.53410	7.13347	7.12646	7.11122	7.10456	9.418	108.7	109.9	109.3
8	1.50234	1.53376	7.13244	7.12597	7.11020	7.10456	8.688	100.3	93.1	96.7
9	1.50244	1.53490	7.13105	7.12507	7.10983	7.10330	8.975	92.7	107.7	100.2
10	1.50209	1.53414	7.13185	7.12511	7.11046	7.10354	8.862	104.5	114.2	109.4
11	1.50221	1.53364	7.13048	7.12466	7.10985	7.10319	8.690	90.2	109.9	100.1
12	1.50449	1.53441	7.13014	7.12445	7.10975	7.10356	8.273	88.2	102.1	95.2
								97.4	106.2	

The first readings are not shown in this plot

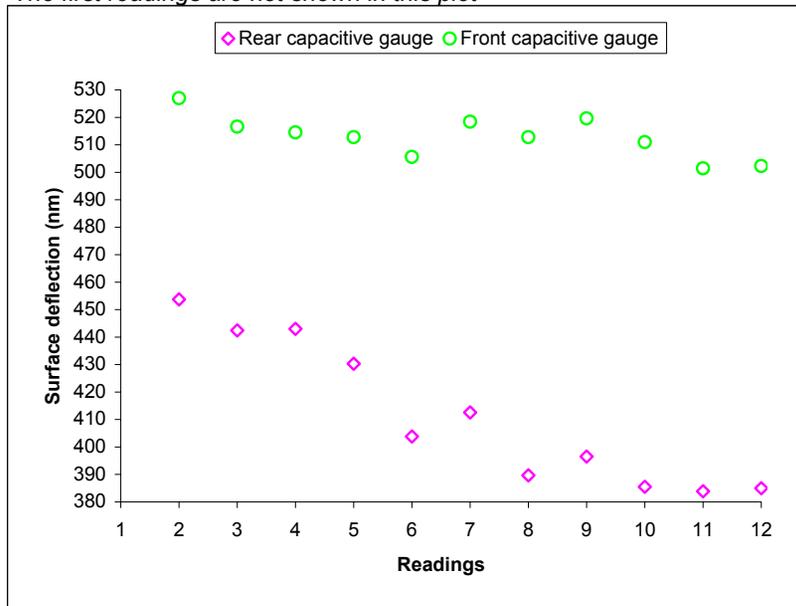


RESULTS OF LAST SIX READINGS			
8.818	Ave. change of load	Ave. resultant deflec.	101.8
		and its standard devia.	6.1

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A2C SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.47954	1.60768	6.76713	6.69812	6.77166	6.70093	35.431	1069.7	1167.0	1118.4
2	1.50590	1.60832	6.72164	6.69237	6.72966	6.69772	28.319	453.7	527.0	490.4
3	1.50661	1.60780	6.71887	6.69033	6.72837	6.69706	27.979	442.4	516.6	479.5
4	1.50849	1.60813	6.71781	6.68923	6.72701	6.69583	27.551	443.0	514.5	478.8
5	1.50863	1.60895	6.71681	6.68905	6.72636	6.69528	27.739	430.3	512.8	471.6
6	1.50997	1.60951	6.71315	6.68710	6.72378	6.69314	27.523	403.8	505.6	454.7
7	1.50899	1.60830	6.71311	6.68649	6.72326	6.69184	27.459	412.6	518.4	465.5
8	1.50830	1.60931	6.71156	6.68642	6.72241	6.69133	27.929	389.7	512.8	451.3
9	1.50702	1.60841	6.71067	6.68509	6.72150	6.69001	28.034	396.5	519.6	458.1
10	1.50860	1.60842	6.70984	6.68497	6.72039	6.68942	27.600	385.5	511.0	448.3
11	1.50870	1.60862	6.70902	6.68425	6.71917	6.68878	27.628	383.9	501.4	442.7
12	1.50931	1.60821	6.70894	6.68410	6.71918	6.68874	27.346	385.0	502.3	443.7
								392.2	510.9	

The first readings are not shown in this plot

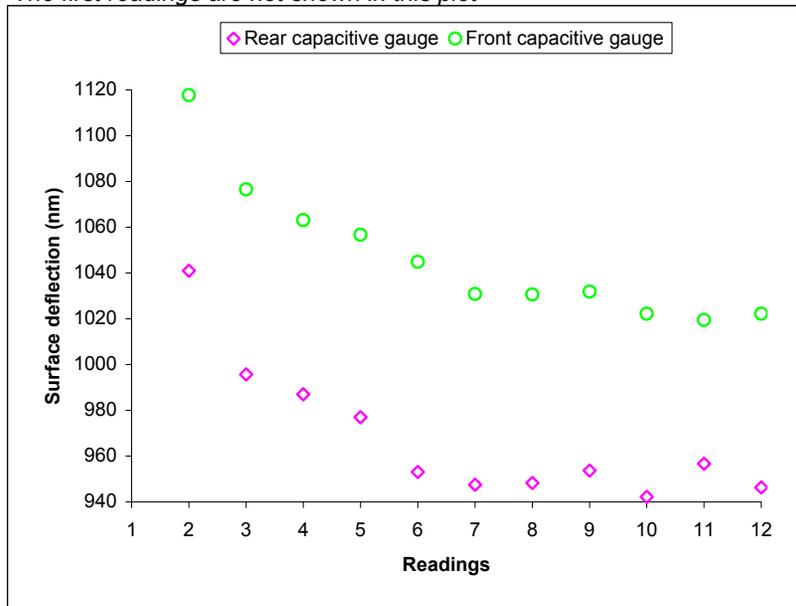


RESULTS OF LAST SIX READINGS			
27.666	Ave. change of load	Ave. resultant deflec.	451.6
		and its standard devia.	8.8

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A2C SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.48200	1.68019	6.75300	6.66273	6.78922	6.70222	54.800	1399.2	1435.5	1417.4
2	1.50773	1.68073	6.72694	6.65978	6.76744	6.69970	47.835	1041.0	1117.7	1079.4
3	1.50935	1.68106	6.72386	6.65962	6.76493	6.69969	47.478	995.7	1076.5	1036.1
4	1.50837	1.68097	6.72302	6.65934	6.76354	6.69911	47.724	987.0	1063.1	1025.1
5	1.50795	1.68140	6.72200	6.65897	6.76308	6.69904	47.959	977.0	1056.7	1016.9
6	1.51019	1.68217	6.71979	6.65830	6.76192	6.69859	47.553	953.1	1044.9	999.0
7	1.50963	1.68067	6.71931	6.65818	6.76140	6.69893	47.293	947.5	1030.8	989.2
8	1.50953	1.68132	6.71896	6.65778	6.76085	6.69839	47.500	948.3	1030.6	989.5
9	1.50826	1.68116	6.71876	6.65723	6.76055	6.69801	47.807	953.7	1031.9	992.8
10	1.50944	1.68033	6.71814	6.65735	6.75925	6.69730	47.251	942.2	1022.2	982.2
11	1.50906	1.68166	6.71821	6.65649	6.75919	6.69740	47.724	956.7	1019.5	988.1
12	1.50854	1.68095	6.71797	6.65692	6.75864	6.69669	47.672	946.3	1022.2	984.3
								949.1	1026.2	

The first readings are not shown in this plot

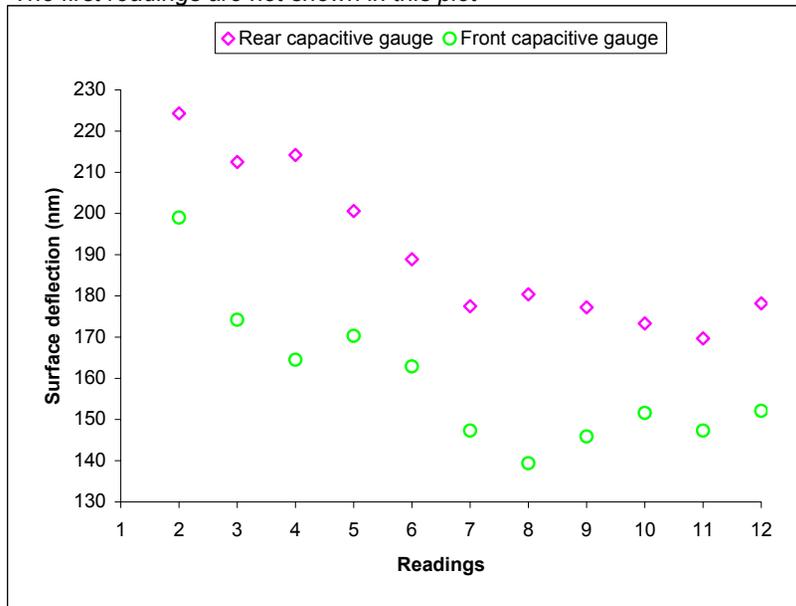


RESULTS OF LAST SIX READINGS			
47.541	<i>Ave. change of load</i>	<i>Ave. resultant deflec.</i>	987.7
		<i>and its standard devia.</i>	3.8

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A2D SURFACE USING 15g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.43322	1.48985	6.89496	6.76677	6.88064	6.76278	15.658	1986.9	1944.7	1965.8
2	1.45600	1.48980	6.77900	6.76453	6.77378	6.76172	9.346	224.3	199.0	211.7
3	1.45827	1.48966	6.77691	6.76320	6.77072	6.76016	8.679	212.5	174.2	193.4
4	1.46011	1.49167	6.77645	6.76263	6.77022	6.76025	8.726	214.2	164.5	189.4
5	1.46103	1.49200	6.77534	6.76240	6.76911	6.75879	8.563	200.6	170.3	185.5
6	1.45969	1.49110	6.77363	6.76144	6.76794	6.75807	8.685	188.9	162.9	175.9
7	1.46045	1.49136	6.77170	6.76025	6.76648	6.75755	8.547	177.5	147.3	162.4
8	1.45966	1.49165	6.77129	6.75965	6.76548	6.75703	8.845	180.4	139.4	159.9
9	1.45946	1.49021	6.77101	6.75958	6.76672	6.75788	8.502	177.2	145.9	161.6
10	1.45968	1.49097	6.77121	6.76003	6.76723	6.75804	8.652	173.3	151.6	162.5
11	1.46049	1.49055	6.77164	6.76069	6.76666	6.75773	8.312	169.7	147.3	158.5
12	1.46043	1.49170	6.77158	6.76008	6.76698	6.75776	8.646	178.2	152.1	165.2
								176.1	147.3	

The first readings are not shown in this plot

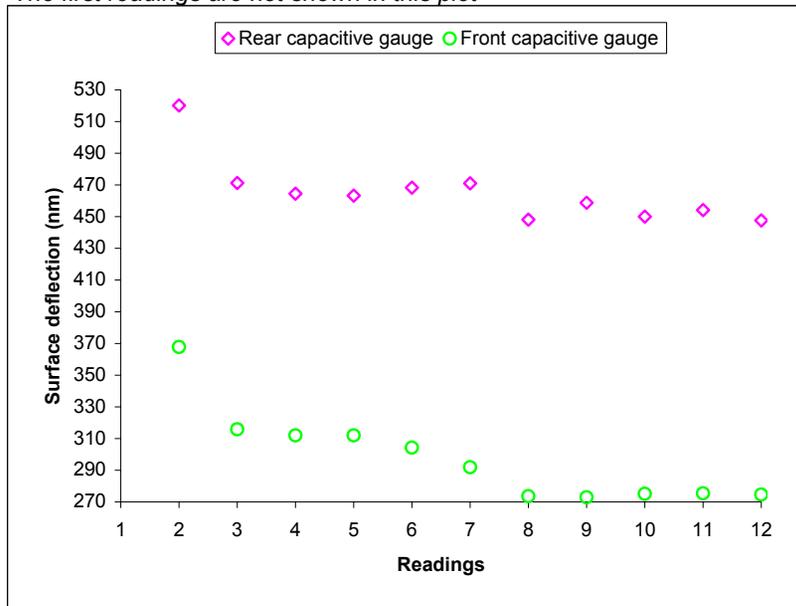


RESULTS OF LAST SIX READINGS			
8.584	Ave. change of load	Ave. resultant deflec.	161.7
		and its standard devia.	2.3

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A2D SURFACE USING 35g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.43722	1.56566	7.01430	6.87992	6.98264	6.87102	35.514	2082.9	1841.7	1962.3
2	1.46239	1.56564	6.90912	6.87556	6.88830	6.86601	28.549	520.2	367.8	444.0
3	1.46209	1.56494	6.90505	6.87465	6.88465	6.86551	28.438	471.2	315.8	393.5
4	1.46305	1.56474	6.90342	6.87345	6.88245	6.86354	28.117	464.5	312.0	388.3
5	1.46332	1.56309	6.90167	6.87178	6.88153	6.86262	27.587	463.3	312.0	387.7
6	1.46314	1.56380	6.89959	6.86938	6.87960	6.86116	27.833	468.3	304.3	386.3
7	1.46443	1.56507	6.89777	6.86738	6.87785	6.86016	27.827	471.0	291.9	381.5
8	1.46539	1.56596	6.89572	6.86681	6.87647	6.85989	27.808	448.1	273.6	360.9
9	1.46505	1.56471	6.89580	6.86620	6.87699	6.86045	27.556	458.8	272.9	365.9
10	1.46423	1.56415	6.89588	6.86685	6.87683	6.86016	27.628	450.0	275.1	362.6
11	1.46497	1.56447	6.89483	6.86553	6.87543	6.85874	27.512	454.2	275.4	364.8
12	1.46488	1.56559	6.89406	6.86518	6.87509	6.85845	27.846	447.6	274.6	361.1
								455.0	277.3	

The first readings are not shown in this plot

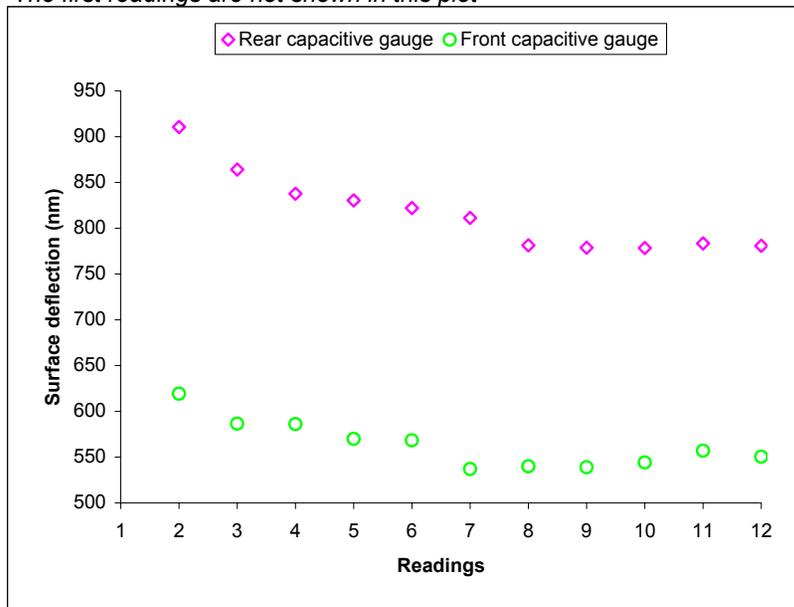


RESULTS OF LAST SIX READINGS			
27.696	Ave. change of load	Ave. resultant deflec.	366.1
		and its standard devia.	7.8

SAME-POINT REPEATED CONTACTS WITH 3MM TIP ON A2D SURFACE USING 55g DEAD-WEIGHT

Readings	Mean voltage of loadcell		Mean voltage of rear capacitive gauge		Mean voltage of front capacitive gauge		Change of load on surface (g)	Rear capacitive gauge displacement (nm)	Front capacitive gauge displacement (nm)	Resultant deflection at contact tip (nm)
	before loading	after loading	before loading	after loading	before loading	after loading				
1	1.43422	1.63819	7.23438	7.07488	7.22381	7.09323	56.398	2472.2	2154.6	2313.4
2	1.46110	1.63884	7.12868	7.06993	7.12724	7.08971	49.145	910.6	619.2	764.9
3	1.46309	1.63920	7.12337	7.06762	7.12426	7.08871	48.695	864.1	586.6	725.4
4	1.46407	1.63900	7.12044	7.06640	7.12243	7.08691	48.368	837.6	586.1	711.9
5	1.46360	1.63934	7.11918	7.06561	7.12043	7.08589	48.592	830.3	569.9	700.1
6	1.46369	1.63813	7.11570	7.06266	7.11785	7.08341	48.233	822.1	568.3	695.2
7	1.46511	1.63950	7.11313	7.06079	7.11436	7.08181	48.219	811.3	537.1	674.2
8	1.46716	1.64070	7.11076	7.06035	7.11364	7.08091	47.984	781.4	540.0	660.7
9	1.46582	1.63935	7.11080	7.06056	7.11372	7.08106	47.981	778.7	538.9	658.8
10	1.46507	1.63821	7.11024	7.06002	7.11295	7.07997	47.873	778.4	544.2	661.3
11	1.46423	1.63824	7.11125	7.06071	7.11409	7.08033	48.114	783.4	557.0	670.2
12	1.46447	1.63745	7.11036	7.05998	7.11293	7.07957	47.829	780.9	550.4	665.7
								785.7	544.6	

The first readings are not shown in this plot



RESULTS OF LAST SIX READINGS			
48.000	Ave. change of load	Ave. resultant deflec.	665.1
		and its standard devia.	6.0