

Customer: JP PATTERN
 Customer P.O. # P20031043-01A
 Part Number SEL405-006
 2A9

Alloy: CF 8M NON MAG
 Spec: WF, PRINCETON
 Part Name: OVAL T SECTION

File Number: 53522
 Date: 3-25-03
 Plate Number: 25741

Heat Number: _____
 Number Pieces: _____
 Serial Nos.: _____

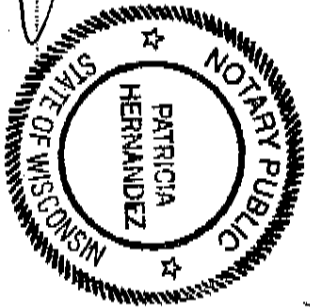
Elements	Minimum	Maximum	CHEMICAL	COMPOSITION	PERCENT
C	.08	.02			
MN	1.50	.98			
SI	1.00	.46			
P	.040	.022			
S	.040	.012			
CR	17.00	18.50			
NI	14.00	18.00			
MO	2.00	2.82			

tensile strength, psi 70000
 yield strength, psi 30000
 elongation %, in 2" 30.0

Date: 3-25-03
 Subscribed and sworn to before me:

We hereby certify that the referenced material has been tested in accordance with the listed specifications and has been found to have the chemical and/or physical properties noted hereon.

Patricia Hernandez
 Notary Public



Paul Hernandez
 Authorized Signature

Quality Assurance

Inspection Overview

Job Number	20031043
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Insp. No.	Insp. Date	Description
01	03/03/2003	<ul style="list-style-type: none">Checked c01a model and customer supplied print (jc05a). All Ok.
02	03/05/2003	<ul style="list-style-type: none">Checked wood pattern. Shrink and finish stock applied correctly. All OK
03	03/21/2003	<ul style="list-style-type: none">Rough casting checked to see if there is adequate finish stock. OK
04	03/28/2003	<ul style="list-style-type: none">Finished part checked with Romer portable CMM. All dimensions Ok.

Inspection Log

Job Number	20031043
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Code	Name	Description
OBSRV	Observation	Used when problems such as back-draft areas are noticed on customer supplied model.
NOTE	Note	General notes.
OK	OK	
NCA	Needs Corrective Action	Used when item has a mistake and needs to be corrected.
NAW	Needs Additional Work	Used when item is not complete
MOD	Modification	Used when item is not necessarily wrong but needs modification in order to optimize
INV	Investigate	Used when something needs to be looked into or researched further.

Insp. No.: I01	Insp: John P.	Date: 03/03/2003 Start: 8:30am End: 8:45am Hours: .25 hr
Reference Materials:	Cad models, Drawing File	
Inspection Objectives;	<ul style="list-style-type: none"> Part Models modeled correctly 	

A)	C01a_customer_jc05a.prt	
1)	OK	<ul style="list-style-type: none"> Model matches that of customer data in jc05a directory.
2)	OK	<ul style="list-style-type: none"> Since part print (pdf file) will be used to make pattern, I compared relevant dimensions on print to that of actual cad model. Dimensions are a bit off due to rounding off, but are acceptable for construction of pattern.

General Notes;

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Inspection Log

Job Number	20021043
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Code	Name	Description
OBSRV	Observation	Used when problems such as back-draft areas are noticed on customer supplied model.
NOTE	Note	General notes.
OK	OK	
NCA	Needs Corrective Action	Used when item has a mistake and needs to be corrected.
NAW	Needs Additional Work	Used when item is not complete
MOD	Modification	Used when item is not necessarily wrong but needs modification in order to optimize
INV	Investigate	Used when something needs to be looked into or researched further.

Insp. No.: I02	Insp: John P.	Date: 03/05/2003	Start: 7:15am	End: 7:45am	Hours: .5hr
Reference Materials:	Wood Pattern, Print JC05a				
Inspection Objectives;	<ul style="list-style-type: none"> Part Models modeled correctly 				

A)	Wood Pattern	
1)	OK	<ul style="list-style-type: none"> Checked overall sizes of wood pattern to ensure that proper shrink was used, and that it has enough machine stock. All OK. Took digital images of pattern.

General Notes;



Inspection Log

Job Number	20021043
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Code	Name	Description
OBSRV	Observation	Used when problems such as back-draft areas are noticed on customer supplied model.
NOTE	Note	General notes.
OK	OK	
NCA	Needs Corrective Action	Used when item has a mistake and needs to be corrected.
NAW	Needs Additional Work	Used when item is not complete
MOD	Modification	Used when item is not necessarily wrong but needs modification in order to optimize
INV	Investigate	Used when something needs to be looked into or researched further.

Insp. No.: I03	Insp: Mark S.	Date: 03/21/2003 Start: 1:30pm End: 2:00pm Hours: .5
Reference Materials:	Rough Casting, Jc05a	
Inspection Objectives;	<ul style="list-style-type: none"> Part Models modeled correctly 	

A)	Rough Casting	
1)	OK	<ul style="list-style-type: none"> Overall sizes of rough casting were measured to determine that there is adequate finish stock for machining. There is enough stock. General findings are that length shrunk a bit more than anticipated. 5/16" per foot shrink would have been closer. (Instead of 9/32"). Measured dimensions marked on print jc05a.

General Notes;



Inspection Log

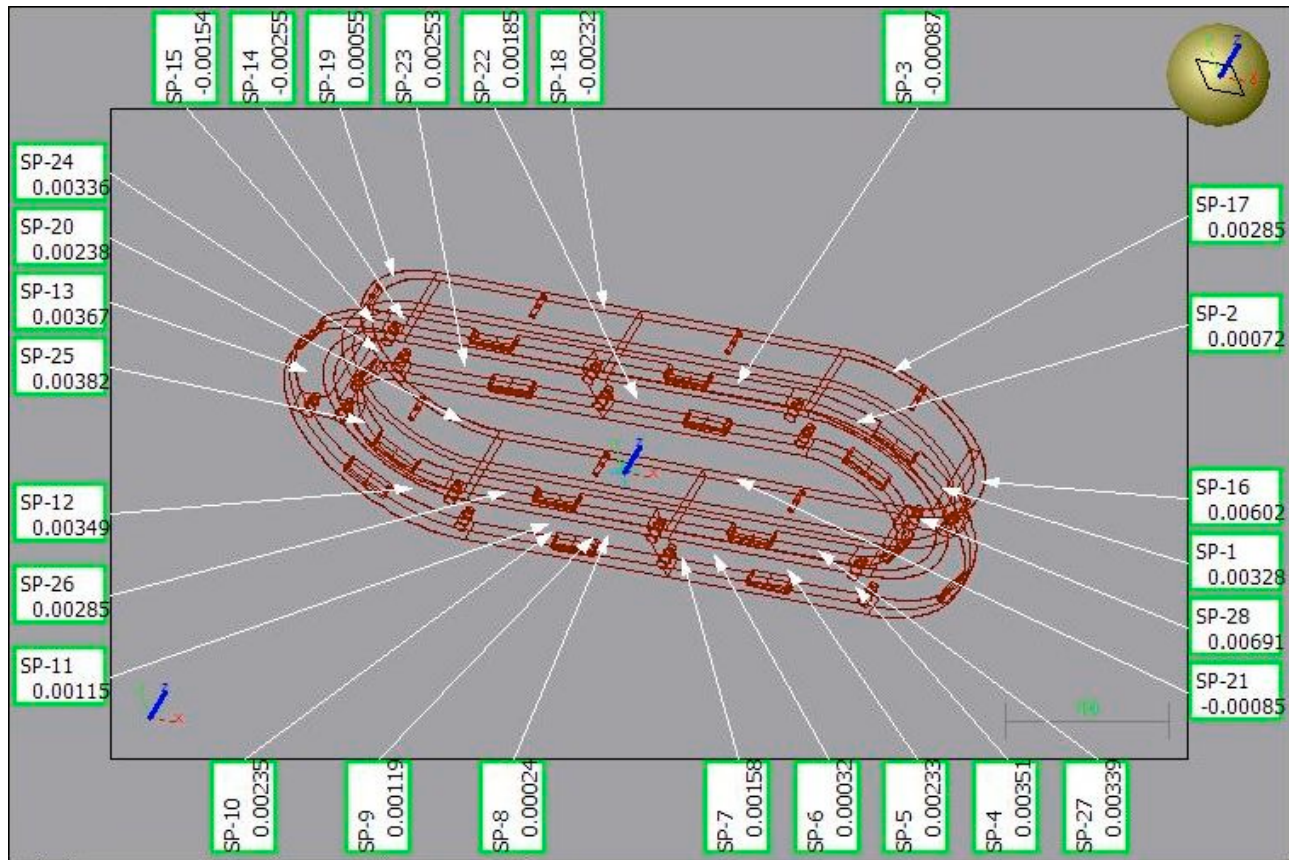
Job Number	20021043
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Code	Name	Description
OBSRV	Observation	Used when problems such as back-draft areas are noticed on customer supplied model.
NOTE	Note	General notes.
OK	OK	
NCA	Needs Corrective Action	Used when item has a mistake and needs to be corrected.
NAW	Needs Additional Work	Used when item is not complete
MOD	Modification	Used when item is not necessarily wrong but needs modification in order to optimize
INV	Investigate	Used when something needs to be looked into or researched further.

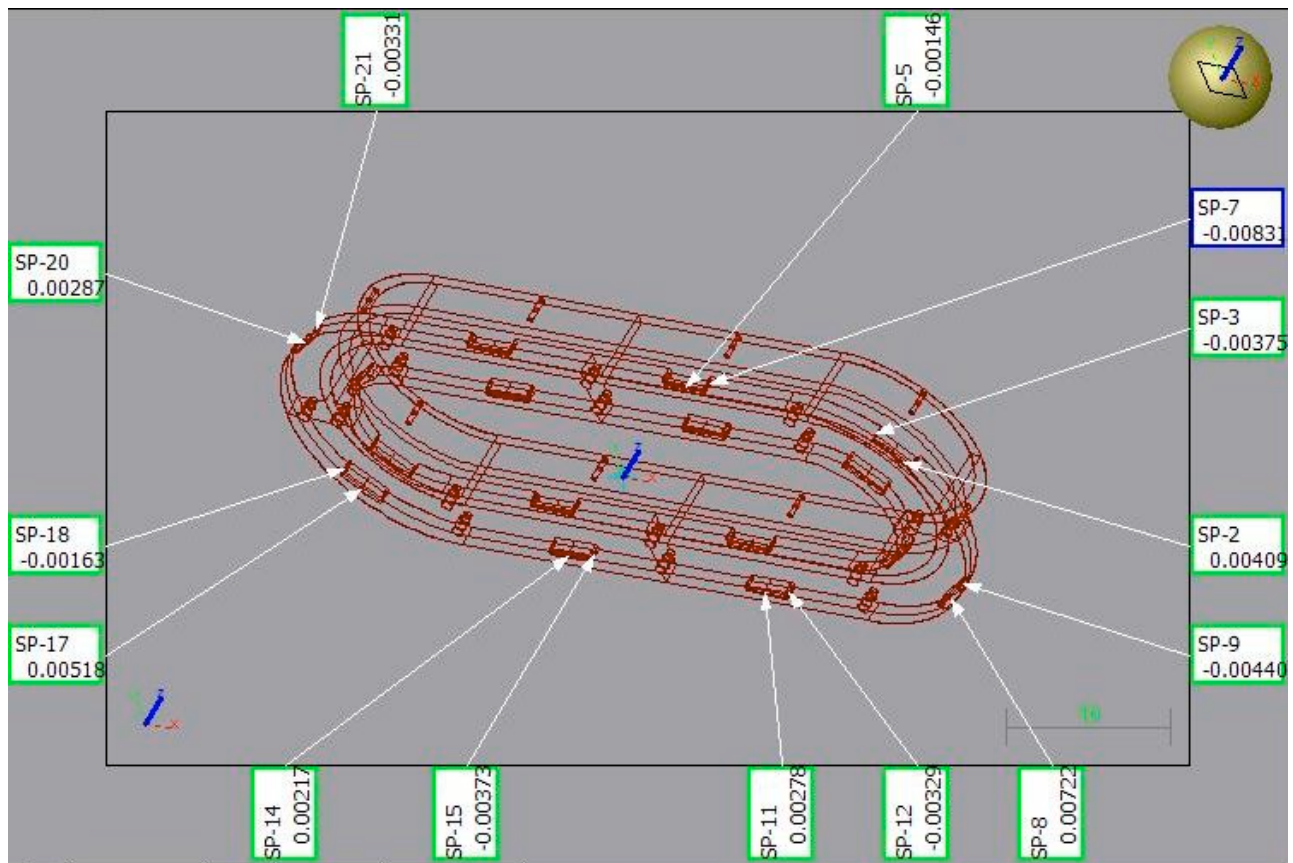
Insp. No.: I04	Insp: John P, Dean S	Date: 03/28/2003	Start: 10:30 am	End: 12:30pm	Hours: 2 hrs
Reference Materials:	Machined Part				
Inspection Objectives;	<ul style="list-style-type: none"> Part Models modeled correctly 				

A)	Machined Part	
1)	OK	<ul style="list-style-type: none"> Dean Solberg from Exact Metrology came in with his Romer arm and inspected finished part. Results are documented in Inspection 04 excel sheet and jpg images. All data except holes are measured as deviation to cad model. All within tolerance. Hole data is XY position. Positions compared manually to cad model. All within tolerance.

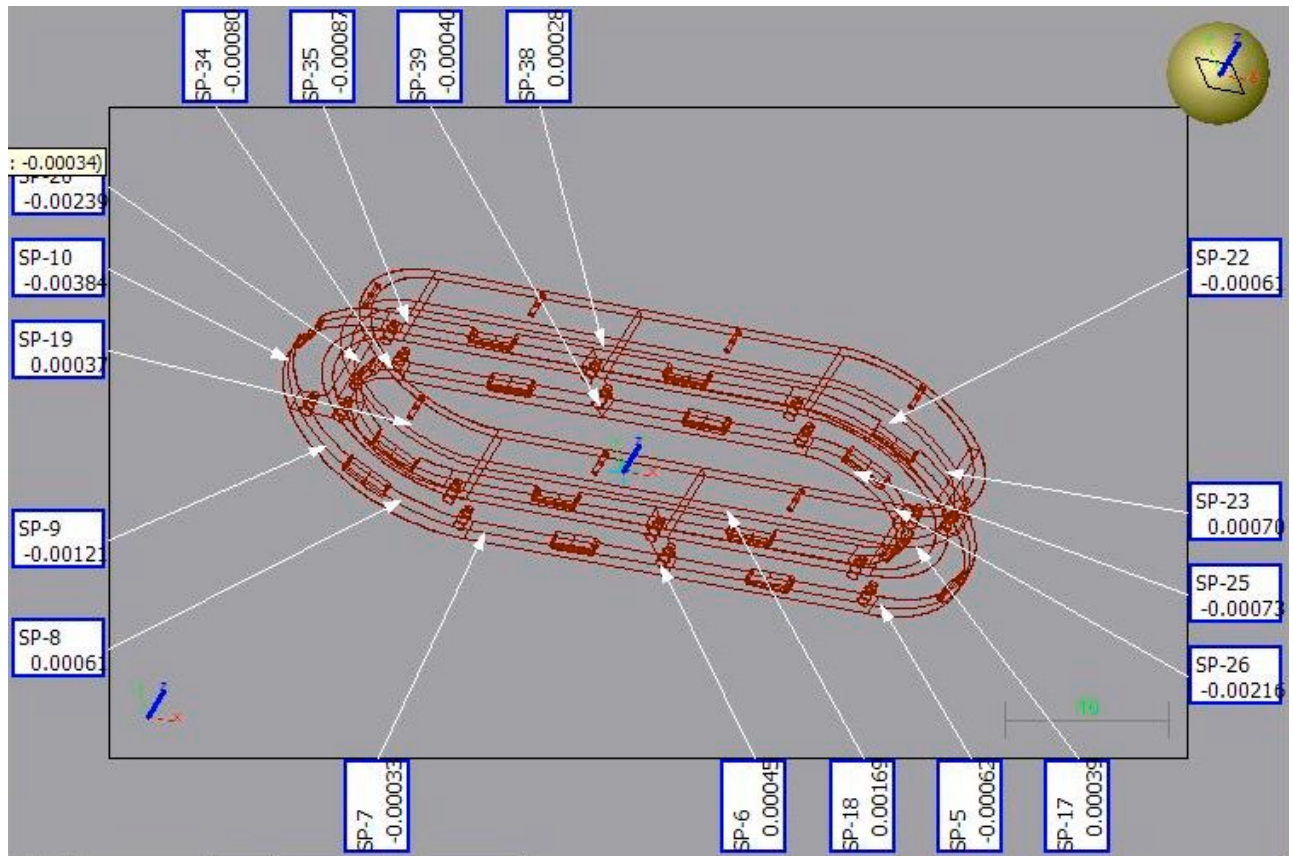




Heights



Outer Pockets



Profiles

Description	Oval Tee Mold	Customer	PPPL
Part No.	se1405-006	Customer contact	James Chrzanowski
Drawing Number	JP20031043	Customer phone No.	
Thickness		Customer fax No.	

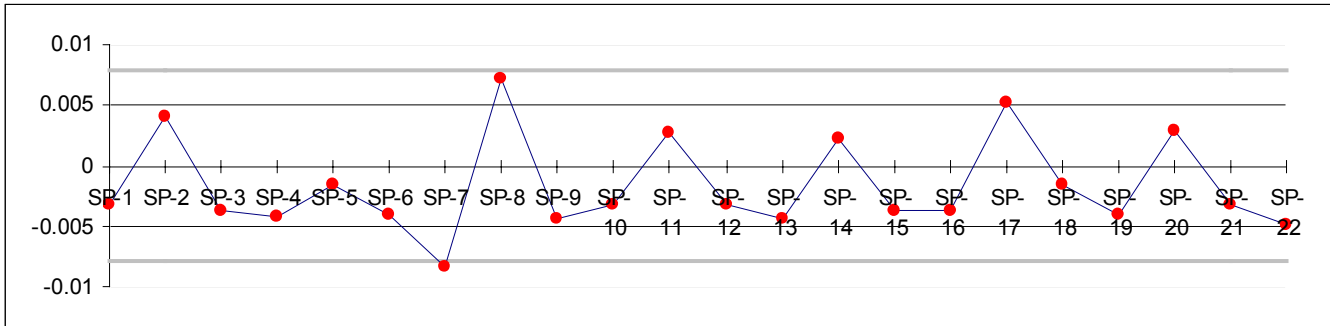
Geometric Group 1 (Set Origin)

Slot 1							
		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-6.921	0.000	6.921	6.921
	Y	0.000	0.000	-22.157	0.000	22.157	22.157
	Z	0.000	0.000	-3.364	0.000	3.364	3.364
Length		-0.100	0.100	42.607	42.607	0.000	
Width		-0.100	0.100	13.629	13.629	0.000	
Radius		-0.100	0.100	6.815	6.815	0.000	

Outer Pockets

Surface Points

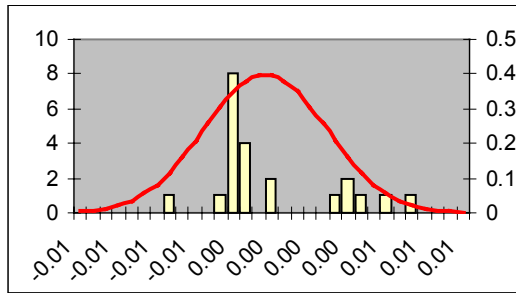
Name	Offset	Lo. Tol.	Hi. Tol.	X	Y	Z	dX	dY	dZ	DL
SP-1	0.000	-0.008	0.008	22.099	5.485	0.792	0.002	-0.002	0.000	-0.003
SP-2	0.000	-0.008	0.008	21.680	6.013	0.500	0.000	0.000	0.004	0.004
SP-3	0.000	-0.008	0.008	19.951	7.579	0.980	-0.003	0.003	0.000	-0.004
SP-4	0.000	-0.008	0.008	20.899	6.384	1.097	-0.003	-0.003	0.000	-0.004
SP-5	0.000	-0.008	0.008	7.159	9.283	0.500	0.000	0.000	-0.002	-0.002
SP-6	0.000	-0.008	0.008	5.500	9.309	1.050	-0.004	0.000	0.000	-0.004
SP-7	0.000	-0.008	0.008	8.500	9.229	1.215	0.008	0.000	0.000	-0.008
SP-8	0.000	-0.008	0.008	21.123	-6.600	0.500	0.000	0.000	0.007	0.007
SP-9	0.000	-0.008	0.008	22.061	-5.447	1.053	0.003	0.003	0.000	-0.004
SP-10	0.000	-0.008	0.008	19.981	-7.609	0.949	-0.002	-0.002	0.000	-0.003
SP-11	0.000	-0.008	0.008	6.882	-9.375	0.500	0.000	0.000	0.003	0.003
SP-12	0.000	-0.008	0.008	8.500	-9.369	0.883	0.003	0.000	0.000	-0.003
SP-13	0.000	-0.008	0.008	5.500	-9.394	1.138	-0.004	0.000	0.000	-0.004
SP-14	0.000	-0.008	0.008	-7.087	-9.357	0.500	0.000	0.000	0.002	0.002
SP-15	0.000	-0.008	0.008	-5.500	-9.341	0.976	0.004	0.000	0.000	-0.004
SP-16	0.000	-0.008	0.008	-8.500	-9.387	0.892	-0.004	0.000	0.000	-0.004
SP-17	0.000	-0.008	0.008	-21.046	-6.616	0.500	0.000	0.000	0.005	0.005
SP-18	0.000	-0.008	0.008	-22.137	-5.523	0.963	-0.001	0.001	0.000	-0.002
SP-19	0.000	-0.008	0.008	-20.012	-7.641	0.816	0.003	-0.003	0.000	-0.004
SP-20	0.000	-0.008	0.008	-20.956	6.602	0.500	0.000	0.000	0.003	0.003
SP-21	0.000	-0.008	0.008	-19.961	7.590	0.947	0.002	0.002	0.000	-0.003
SP-22	0.000	-0.008	0.008	-22.067	5.453	0.996	-0.003	-0.003	0.000	-0.005



Number of points	22
Out of Tolerance points	1
Performance	95%

Mean	-0.002
Std. deviation	0.004

Max. Value	0.007
Min. Value	-0.008



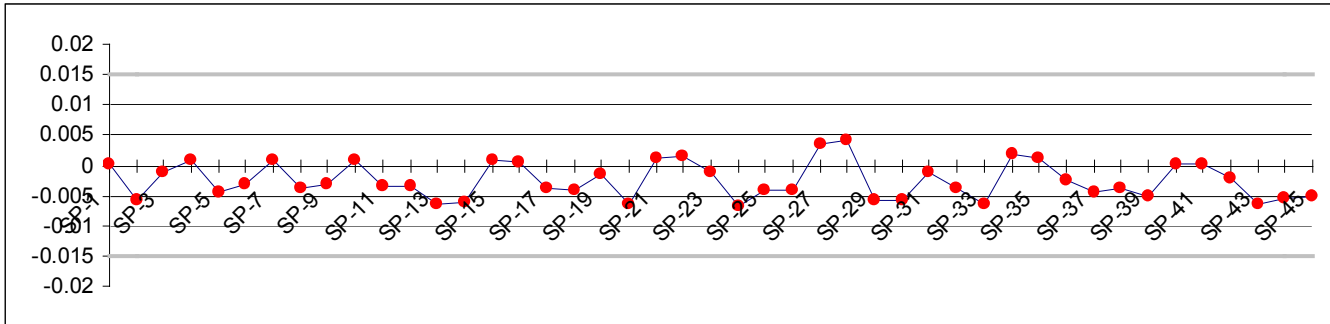
Inside pockets

Surface Points

Name	Offset	Lo. Tol.	Hi. Tol.	X	Y	Z	dX	dY	dZ	DL
SP-1	0.000	-0.015	0.015	-7.338	-5.162	0.500	0.000	0.000	0.000	0.000
SP-2	0.000	-0.015	0.015	-8.500	-5.129	0.916	-0.006	0.000	0.000	-0.006
SP-3	0.000	-0.015	0.015	-5.500	-5.032	1.054	0.001	0.000	0.000	-0.001
SP-4	0.000	-0.015	0.015	-17.976	-3.539	0.500	0.000	0.000	0.001	0.001
SP-5	0.000	-0.015	0.015	-19.029	-2.415	0.876	-0.003	0.003	0.000	-0.005
SP-6	0.000	-0.015	0.015	-16.916	-4.545	0.956	0.002	-0.002	0.000	-0.003
SP-7	0.000	-0.015	0.015	-18.155	3.400	0.500	0.000	0.000	0.001	0.001
SP-8	0.000	-0.015	0.015	-18.987	2.373	0.991	-0.003	-0.003	0.000	-0.004
SP-9	0.000	-0.015	0.015	-16.864	4.493	0.782	0.002	0.002	0.000	-0.003
SP-10	0.000	-0.015	0.015	-17.281	4.214	0.500	0.000	0.000	0.001	0.001
SP-11	0.000	-0.015	0.015	-18.321	3.569	0.989	-0.003	0.003	0.000	-0.004
SP-12	0.000	-0.015	0.015	-17.712	4.177	1.038	-0.002	0.002	0.000	-0.003
SP-13	0.000	-0.015	0.015	-18.507	-3.383	1.205	-0.005	-0.005	0.000	-0.006
SP-14	0.000	-0.015	0.015	-17.854	-4.036	1.245	-0.004	-0.004	0.000	-0.006
SP-15	0.000	-0.015	0.015	-8.130	5.039	0.500	0.000	0.000	0.001	0.001
SP-16	0.000	-0.015	0.015	-6.466	5.017	0.500	0.000	0.000	0.001	0.001
SP-17	0.000	-0.015	0.015	-6.251	5.331	0.994	0.000	0.004	0.000	-0.004
SP-18	0.000	-0.015	0.015	-7.869	5.331	0.975	0.000	0.004	0.000	-0.004
SP-19	0.000	-0.015	0.015	-8.500	5.017	0.966	-0.002	0.000	0.000	-0.002
SP-20	0.000	-0.015	0.015	-5.500	5.061	1.066	0.006	0.000	0.000	-0.006
SP-21	0.000	-0.015	0.015	6.151	5.025	0.500	0.000	0.000	0.001	0.001
SP-22	0.000	-0.015	0.015	7.522	5.011	0.500	0.000	0.000	0.002	0.002
SP-23	0.000	-0.015	0.015	5.500	4.920	1.033	-0.001	0.000	0.000	-0.001
SP-24	0.000	-0.015	0.015	8.500	5.163	1.038	0.007	0.000	0.000	-0.007
SP-25	0.000	-0.015	0.015	6.996	5.331	1.031	0.000	0.004	0.000	-0.004
SP-26	0.000	-0.015	0.015	6.354	5.331	1.087	0.000	0.004	0.000	-0.004
SP-27	0.000	-0.015	0.015	17.041	4.352	0.500	0.000	0.000	0.003	0.003
SP-28	0.000	-0.015	0.015	18.546	3.072	0.500	0.000	0.000	0.004	0.004

Surface Points

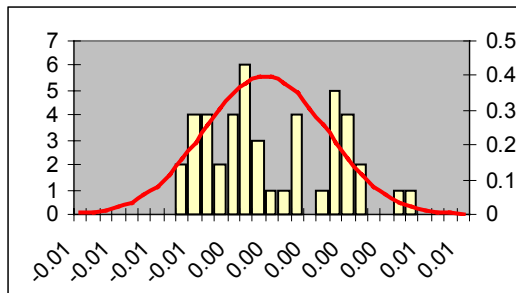
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SP-29	0.000	-0.015	0.015	18.711	3.179	0.965	0.004	0.004	0.000	-0.006
SP-30	0.000	-0.015	0.015	17.599	4.291	1.142	0.004	0.004	0.000	-0.006
SP-31	0.000	-0.015	0.015	16.865	4.494	1.024	-0.001	0.001	0.000	-0.001
SP-32	0.000	-0.015	0.015	18.968	2.354	0.734	0.003	-0.003	0.000	-0.004
SP-33	0.000	-0.015	0.015	19.042	2.428	1.238	0.005	-0.005	0.000	-0.007
SP-34	0.000	-0.015	0.015	17.316	-4.329	0.500	0.000	0.000	0.002	0.002
SP-35	0.000	-0.015	0.015	18.487	-3.224	0.500	0.000	0.000	0.001	0.001
SP-36	0.000	-0.015	0.015	18.978	-2.364	0.808	0.002	0.002	0.000	-0.003
SP-37	0.000	-0.015	0.015	19.063	-2.450	1.139	0.003	0.003	0.000	-0.005
SP-38	0.000	-0.015	0.015	16.851	-4.480	0.830	-0.003	-0.003	0.000	-0.004
SP-39	0.000	-0.015	0.015	16.945	-4.574	1.337	-0.004	-0.004	0.000	-0.005
SP-40	0.000	-0.015	0.015	5.893	-5.114	0.500	0.000	0.000	0.000	0.000
SP-41	0.000	-0.015	0.015	8.025	-4.954	0.500	0.000	0.000	0.000	0.000
SP-42	0.000	-0.015	0.015	5.500	-5.195	0.699	-0.002	0.000	0.000	-0.002
SP-43	0.000	-0.015	0.015	5.500	-5.178	1.154	-0.007	0.000	0.000	-0.007
SP-44	0.000	-0.015	0.015	8.500	-4.996	0.993	0.006	0.000	0.000	-0.006
SP-45	0.000	-0.015	0.015	8.500	-4.988	1.390	0.005	0.000	0.000	-0.005



Number of points	45
Out of Tolerance points	0
Performance	100%

Mean	-0.003
Std. deviation	0.003

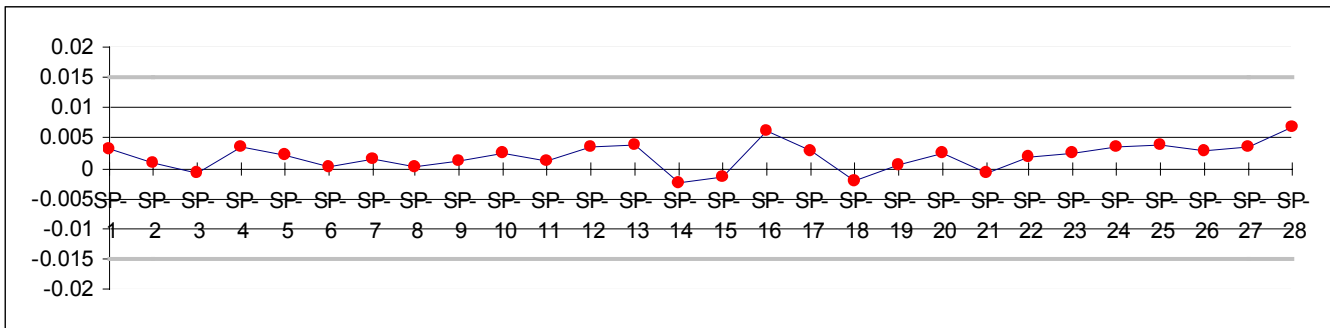
Max. Value	0.004
Min. Value	-0.007



Heights

Surface Points

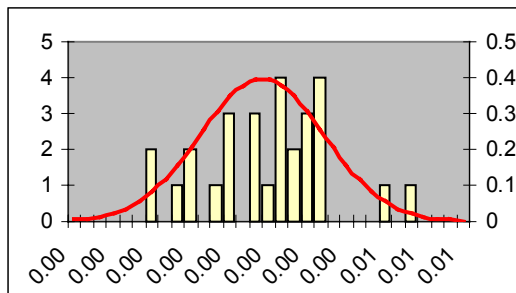
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SP-1	0.000	-0.015	0.015	22.840	2.350	1.500	0.000	0.000	0.003	0.003
SP-2	0.000	-0.015	0.015	18.304	7.296	1.500	0.000	0.000	0.001	0.001
SP-3	0.000	-0.015	0.015	10.289	9.042	1.500	0.000	0.000	-0.001	-0.001
SP-4	0.000	-0.015	0.015	12.997	-8.849	1.500	0.000	0.000	0.004	0.004
SP-5	0.000	-0.015	0.015	8.287	-8.475	1.500	0.000	0.000	0.002	0.002
SP-6	0.000	-0.015	0.015	3.104	-8.322	1.500	0.000	0.000	0.000	0.000
SP-7	0.000	-0.015	0.015	0.519	-9.234	1.500	0.000	0.000	0.002	0.002
SP-8	0.000	-0.015	0.015	-4.621	-8.443	1.500	0.000	0.000	0.000	0.000
SP-9	0.000	-0.015	0.015	-5.907	-8.860	1.500	0.000	0.000	0.001	0.001
SP-10	0.000	-0.015	0.015	-8.964	-9.222	1.500	0.000	0.000	0.002	0.002
SP-11	0.000	-0.015	0.015	-8.911	-8.413	1.500	0.000	0.000	0.001	0.001
SP-12	0.000	-0.015	0.015	-18.366	-7.385	1.500	0.000	0.000	0.004	0.004
SP-13	0.000	-0.015	0.015	-23.003	2.184	1.500	0.000	0.000	0.004	0.004
SP-14	0.000	-0.015	0.015	-13.808	9.118	1.500	0.000	0.000	-0.003	-0.003
SP-15	0.000	-0.015	0.015	-16.295	8.265	1.500	0.000	0.000	-0.002	-0.002
SP-16	0.000	-0.015	0.015	21.236	-2.978	6.700	0.000	0.000	0.006	0.006
SP-17	0.000	-0.015	0.015	17.847	6.389	6.700	0.000	0.000	0.003	0.003
SP-18	0.000	-0.015	0.015	-2.671	7.199	6.700	0.000	0.000	-0.002	-0.002
SP-19	0.000	-0.015	0.015	-18.029	6.389	6.700	0.000	0.000	0.001	0.001
SP-20	0.000	-0.015	0.015	-17.310	-6.570	6.700	0.000	0.000	0.002	0.002
SP-21	0.000	-0.015	0.015	2.280	-7.322	6.700	0.000	0.000	-0.001	-0.001
SP-22	0.000	-0.015	0.015	1.822	5.640	1.500	0.000	0.000	0.002	0.002
SP-23	0.000	-0.015	0.015	-10.558	5.531	1.500	0.000	0.000	0.003	0.003
SP-24	0.000	-0.015	0.015	-16.723	5.487	1.500	0.000	0.000	0.003	0.003
SP-25	0.000	-0.015	0.015	-20.086	-1.754	1.500	0.000	0.000	0.004	0.004
SP-26	0.000	-0.015	0.015	-11.282	-6.091	1.500	0.000	0.000	0.003	0.003
SP-27	0.000	-0.015	0.015	11.211	-6.121	1.500	0.000	0.000	0.003	0.003
SP-28	0.000	-0.015	0.015	20.090	-1.077	1.500	0.000	0.000	0.007	0.007



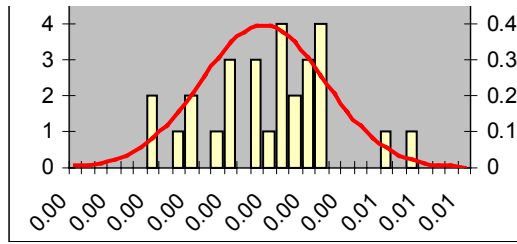
Number of points	28
Out of Tolerance points	0
Performance	100%

Mean	0.002
Std. deviation	0.002

Max. Value	0.007
Min. Value	-0.003



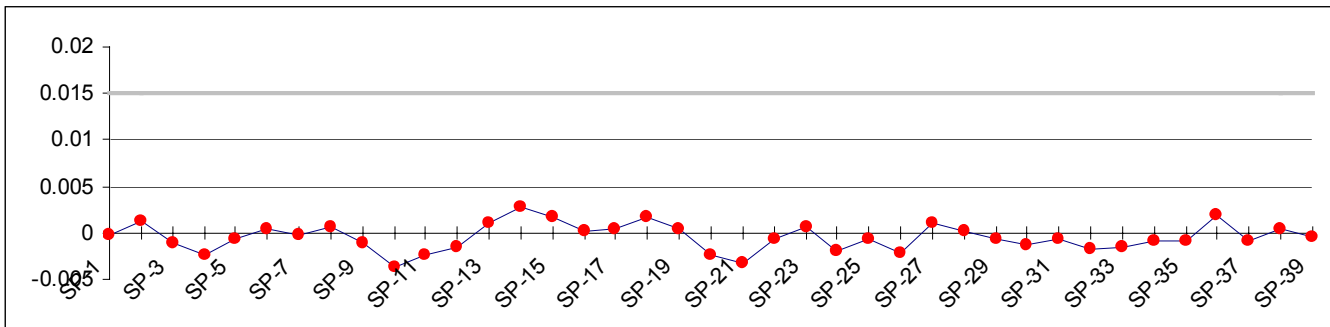
Master part



Profiles

Surface Points

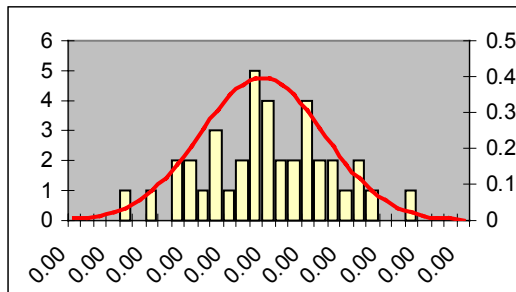
Name	Offset	Lo. Tol.	Hi. Tol.	X	Y	Z	dX	dY	dZ	DL
SP-1	0.000	0.015	0.015	17.019	9.166	1.072	0.000	0.000	0.000	0.000
SP-2	0.000	0.015	0.015	22.628	4.920	0.640	0.001	0.001	0.000	0.001
SP-3	0.000	0.015	0.015	23.975	-0.687	0.705	-0.001	0.000	0.000	-0.001
SP-4	0.000	0.015	0.015	22.489	-5.144	0.725	-0.002	0.001	0.000	-0.003
SP-5	0.000	0.015	0.015	15.000	-9.494	0.955	0.000	0.000	0.001	-0.001
SP-6	0.000	0.015	0.015	-0.712	-9.508	0.722	0.000	0.000	0.000	0.000
SP-7	0.000	0.015	0.015	-13.356	-9.508	0.734	0.000	0.000	0.000	0.000
SP-8	0.000	0.015	0.015	-19.186	-8.269	0.981	0.000	0.000	0.001	0.001
SP-9	0.000	0.015	0.015	-23.116	-4.004	0.804	0.001	0.000	0.001	-0.001
SP-10	0.000	0.015	0.015	-23.069	4.104	0.556	0.004	-0.002	0.000	-0.004
SP-11	0.000	0.015	0.015	-16.482	9.297	1.127	0.001	-0.003	0.000	-0.003
SP-12	0.000	0.015	0.015	4.485	9.508	1.115	0.000	-0.002	0.000	-0.002
SP-13	0.000	0.015	0.015	1.705	7.563	5.460	0.000	0.001	0.000	0.001
SP-14	0.000	0.015	0.015	17.974	6.714	3.861	0.001	0.002	0.000	0.003
SP-15	0.000	0.015	0.015	21.066	3.739	4.509	0.002	0.001	0.000	0.002
SP-16	0.000	0.015	0.015	21.698	-2.296	4.490	0.000	0.000	0.000	0.000
SP-17	0.000	0.015	0.015	16.604	-7.262	4.140	0.000	0.000	0.000	0.000
SP-18	0.000	0.015	0.015	2.833	-7.563	4.338	0.000	-0.002	0.000	0.002
SP-19	0.000	0.015	0.015	-19.560	-5.614	4.902	0.000	0.000	0.000	0.000
SP-20	0.000	0.015	0.015	-22.001	-0.901	5.400	0.002	0.000	0.000	-0.002
SP-21	0.000	0.015	0.015	-19.211	5.910	4.179	0.002	-0.003	0.000	-0.003
SP-22	0.000	0.015	0.015	18.918	5.179	3.499	0.000	0.001	0.000	-0.001
SP-23	0.000	0.015	0.015	21.259	0.791	3.929	-0.001	0.000	0.000	0.001
SP-24	0.000	0.015	0.015	19.733	-4.353	4.100	0.002	-0.001	0.000	-0.002
SP-25	0.000	0.015	0.015	17.567	3.774	0.268	0.001	0.001	0.000	-0.001
SP-26	0.000	0.015	0.015	19.337	0.476	0.553	0.002	0.000	0.000	-0.002
SP-27	0.000	0.015	0.015	17.731	-3.634	0.225	-0.001	0.001	0.000	0.001
SP-28	0.000	0.015	0.015	15.691	-4.718	0.764	0.000	0.000	0.000	0.000
SP-29	0.000	0.015	0.015	0.150	-4.868	0.543	0.000	-0.001	0.000	-0.001
SP-30	0.000	0.015	0.015	0.130	-6.813	5.266	0.000	-0.001	0.000	-0.001
SP-31	0.000	0.015	0.015	-16.047	-4.613	0.508	0.000	-0.001	0.000	-0.001
SP-32	0.000	0.015	0.015	-18.015	-3.360	0.293	-0.001	-0.001	0.000	-0.002
SP-33	0.000	0.015	0.015	-19.342	-0.415	0.659	-0.002	0.000	0.000	-0.002
SP-34	0.000	0.015	0.015	-15.547	4.752	0.811	0.000	0.001	0.000	-0.001
SP-35	0.000	0.015	0.015	-14.894	6.801	3.001	0.000	0.001	0.000	-0.001
SP-36	0.000	0.015	0.015	-21.217	1.092	3.434	0.002	0.000	0.000	0.002
SP-37	0.000	0.015	0.015	-18.212	-5.707	3.747	0.000	-0.001	0.000	-0.001
SP-38	0.000	0.015	0.015	-1.415	6.813	3.939	0.000	0.000	0.000	0.000
SP-39	0.000	0.015	0.015	-0.641	4.868	0.949	0.000	0.000	0.000	0.000



Number of points	39
Out of Tolerance points	39
Performance	0%

Mean	-0.001
Std. deviation	0.001

Max. Value	0.003
Min. Value	-0.004



Bolt Holes (Flange)

Circle 1		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	22.877	22.877	0.000	
	Y	0.000	0.000	-0.001	-0.001	0.000	
	Z	0.000	0.000	1.503	1.503	0.000	
Diameter		-0.100	0.100	0.503	0.503	0.000	

Circle 2		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	14.493	14.493	0.000	
	Y	0.000	0.000	-8.379	-8.379	0.000	
	Z	0.000	0.000	1.504	1.504	0.000	
Diameter		-0.100	0.100	0.506	0.506	0.000	

Circle 3		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	0.005	0.005	0.000	
	Y	0.000	0.000	-8.384	-8.384	0.000	
	Z	0.000	0.000	1.504	1.504	0.000	
Diameter		-0.100	0.100	0.508	0.508	0.000	

Circle 4		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-14.487	-14.487	0.000	
	Y	0.000	0.000	-8.378	-8.378	0.000	
	Z	0.000	0.000	1.504	1.504	0.000	
Diameter		-0.100	0.100	0.506	0.507	0.000	

Circle 5		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-22.874	-22.874	0.000	
	Y	0.000	0.000	-0.003	-0.003	0.000	
	Z	0.000	0.000	1.503	1.503	0.000	
Diameter		-0.100	0.100	0.502	0.502	0.000	

Circle 6		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-14.495	-14.495	0.000	
	Y	0.000	0.000	8.376	8.376	0.000	
	Z	0.000	0.000	1.502	1.502	0.000	
Diameter		-0.100	0.100	0.505	0.505	0.000	

Circle 7		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	14.494	14.494	0.000	
	Y	0.000	0.000	8.371	8.371	0.000	
	Z	0.000	0.000	1.502	1.502	0.000	
Diameter		-0.100	0.100	0.505	0.505	0.000	

Circle 9		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	14.484	14.484	0.000	
	Y	0.000	0.000	5.990	5.990	0.000	
	Z	0.000	0.000	1.502	1.502	0.000	
Diameter		-0.100	0.100	0.505	0.505	0.000	

Circle 10		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-0.004	-0.004	0.000	
	Y	0.000	0.000	5.985	5.985	0.000	
	Z	0.000	0.000	1.502	1.502	0.000	
Diameter		-0.100	0.100	0.506	0.506	0.000	

Circle 11		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-14.482	-14.482	0.000	
	Y	0.000	0.000	5.999	5.999	0.000	
	Z	0.000	0.000	1.502	1.502	0.000	
Diameter		-0.100	0.100	0.506	0.506	0.000	

Circle 12

		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-20.486	-20.486	0.000	
	Y	0.000	0.000	0.000	0.000	0.000	
	Z	0.000	0.000	1.503	1.503	0.000	
Diameter		-0.100	0.100	0.506	0.506	0.000	

Circle 13

		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-14.472	-14.472	0.000	
	Y	0.000	0.000	-6.000	-6.000	0.000	
	Z	0.000	0.000	1.504	1.504	0.000	
Diameter		-0.100	0.100	0.508	0.508	0.000	

Circle 14

		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	0.001	0.001	0.000	
	Y	0.000	0.000	-5.993	-5.993	0.000	
	Z	0.000	0.000	1.504	1.504	0.000	
Diameter		-0.100	0.100	0.505	0.505	0.000	

Circle 15

		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	14.516	14.516	0.000	
	Y	0.000	0.000	-5.991	-5.991	0.000	
	Z	0.000	0.000	1.504	1.504	0.000	
Diameter		-0.100	0.100	0.506	0.506	0.000	

Circle 16

		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	20.493	20.493	0.000	
	Y	0.000	0.000	0.004	0.004	0.000	
	Z	0.000	0.000	1.503	1.503	0.000	
Diameter		-0.100	0.100	0.506	0.506	0.000	

Generated Features

Bolt Holes (Top)

Point 17

		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	19.569	19.569	0.000	
	Y	0.000	0.000	-5.084	-5.084	0.000	
	Z	0.000	0.000	6.703	6.703	0.000	
Diameter		-0.100	0.100	0.397	0.397	0.000	

Master part

Point 18		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	6.994	6.994	0.000	
	Y	0.000	0.000	-7.189	-7.189	0.000	
	Z	0.000	0.000	6.703	6.703	0.000	
Diameter		-0.100	0.100	0.399	0.399	0.000	

Point 19		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-7.011	-7.011	0.000	
	Y	0.000	0.000	-7.195	-7.195	0.000	
	Z	0.000	0.000	6.702	6.702	0.000	
Diameter		-0.100	0.100	0.395	0.395	0.000	

Point 20		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-19.579	-19.579	0.000	
	Y	0.000	0.000	-5.089	-5.089	0.000	
	Z	0.000	0.000	6.700	6.700	0.000	
Diameter		-0.100	0.100	0.391	0.391	0.000	

Point 21		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-19.571	-19.571	0.000	
	Y	0.000	0.000	5.074	5.074	0.000	
	Z	0.000	0.000	6.698	6.698	0.000	
Diameter		-0.100	0.100	0.393	0.393	0.000	

Point 22		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	-6.990	-6.990	0.000	
	Y	0.000	0.000	7.183	7.183	0.000	
	Z	0.000	0.000	6.699	6.699	0.000	
Diameter		-0.100	0.100	0.398	0.398	0.000	

Point 23		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	7.003	7.003	0.000	
	Y	0.000	0.000	7.189	7.189	0.000	
	Z	0.000	0.000	6.700	6.700	0.000	
Diameter		-0.100	0.100	0.398	0.398	0.000	

Point 24		Lo. Tol.	Hi. Tol.	Nominal	Measured	Dev/Mean	Error
Centre	X	0.000	0.000	19.574	19.574	0.000	
	Y	0.000	0.000	5.088	5.088	0.000	
	Z	0.000	0.000	6.701	6.701	0.000	
Diameter		-0.100	0.100	0.393	0.393	0.000	