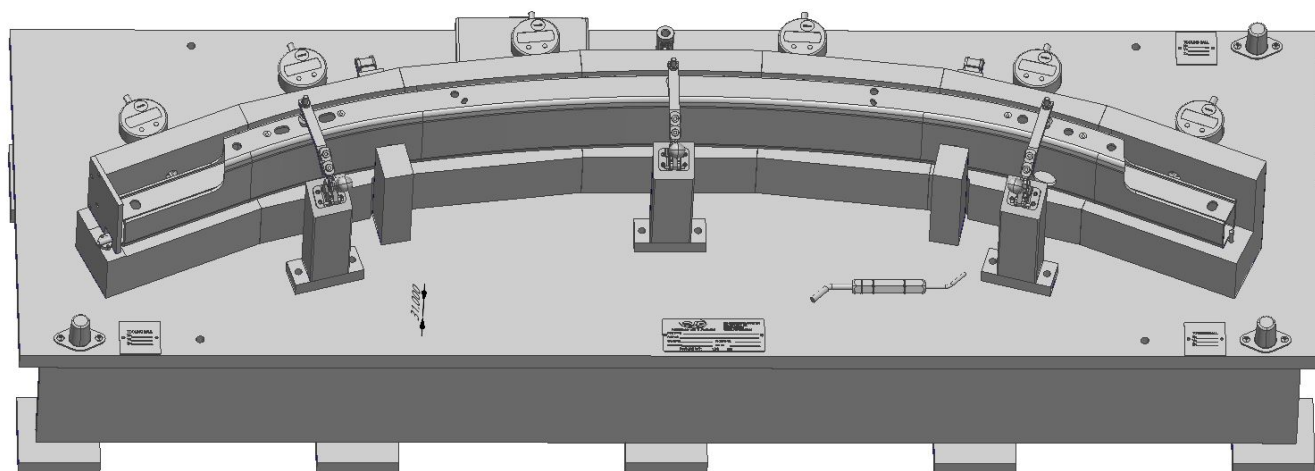


MEASUREMENT REPORT

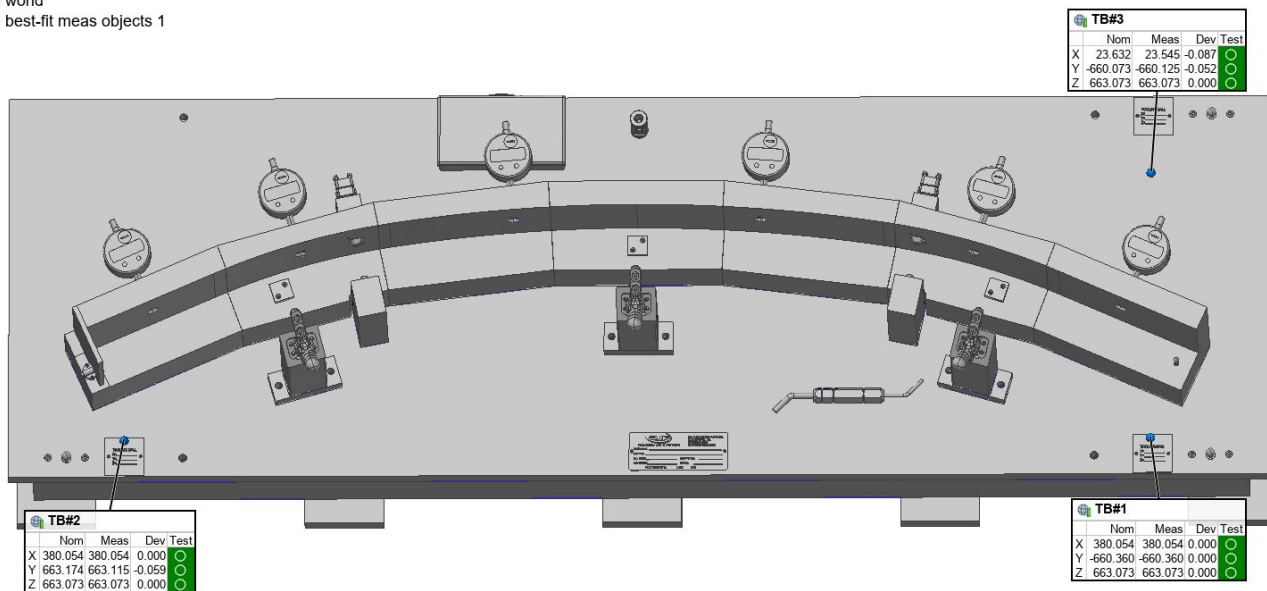
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Customer: WHITEHALL INDUSTRIES
Operator: Cesar Hernandez
E-mail: cesar.hernandez@mess.com.mx
Workspace: PROGRAM_MARZO
Project: PROGRAMA_LG4338_1687603-00_pieza 2

Part name: LG4338
Part number: 1687603-00
Drawing : S/R
Device: MESS-BRAA-03

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Feature Table

Length Units Millimeters

TB#1

Control	Nom	Meas	Tol	Dev	Test
X	380.054	380.054	±0.100	0.000	Pass
Y	-660.360	-660.360	±0.100	0.000	Pass
Z	663.073	663.073	±0.100	0.000	Pass

TB#2

Control	Nom	Meas	Tol	Dev	Test
X	380.054	380.054	±0.100	0.000	Pass
Y	663.174	663.115	±0.100	-0.059	Pass
Z	663.073	663.073	±0.100	0.000	Pass

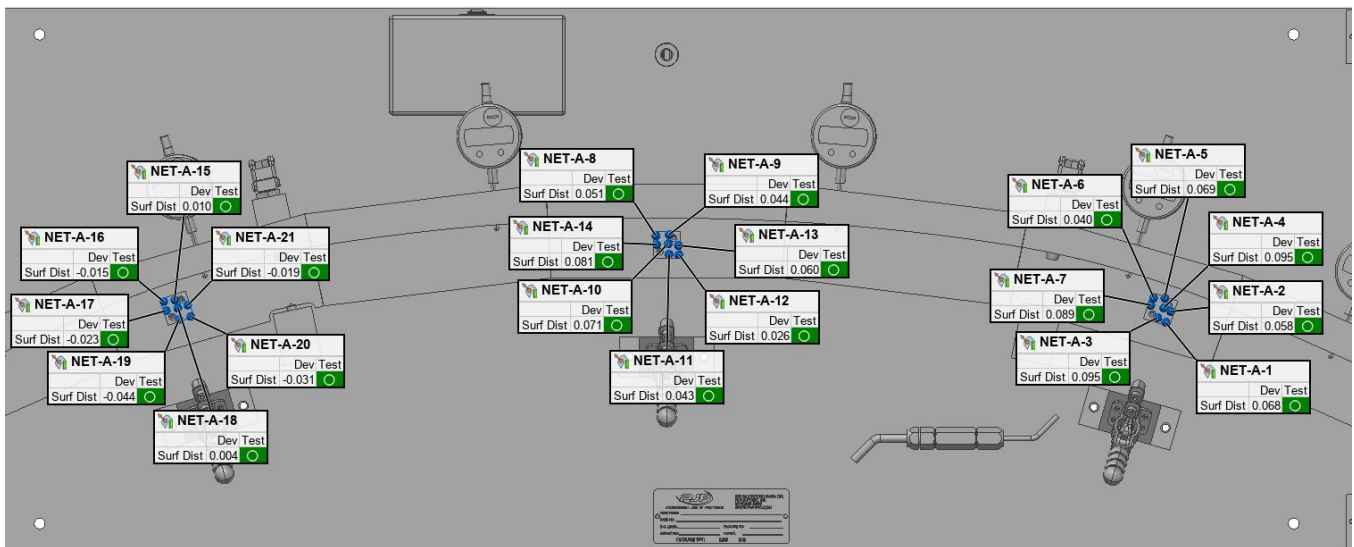
TB#3

Control	Nom	Meas	Tol	Dev	Test
X	23.632	23.545	±0.100	-0.087	Pass
Y	-660.073	-660.125	±0.100	-0.052	Pass
Z	663.073	663.073	±0.100	0.000	Pass

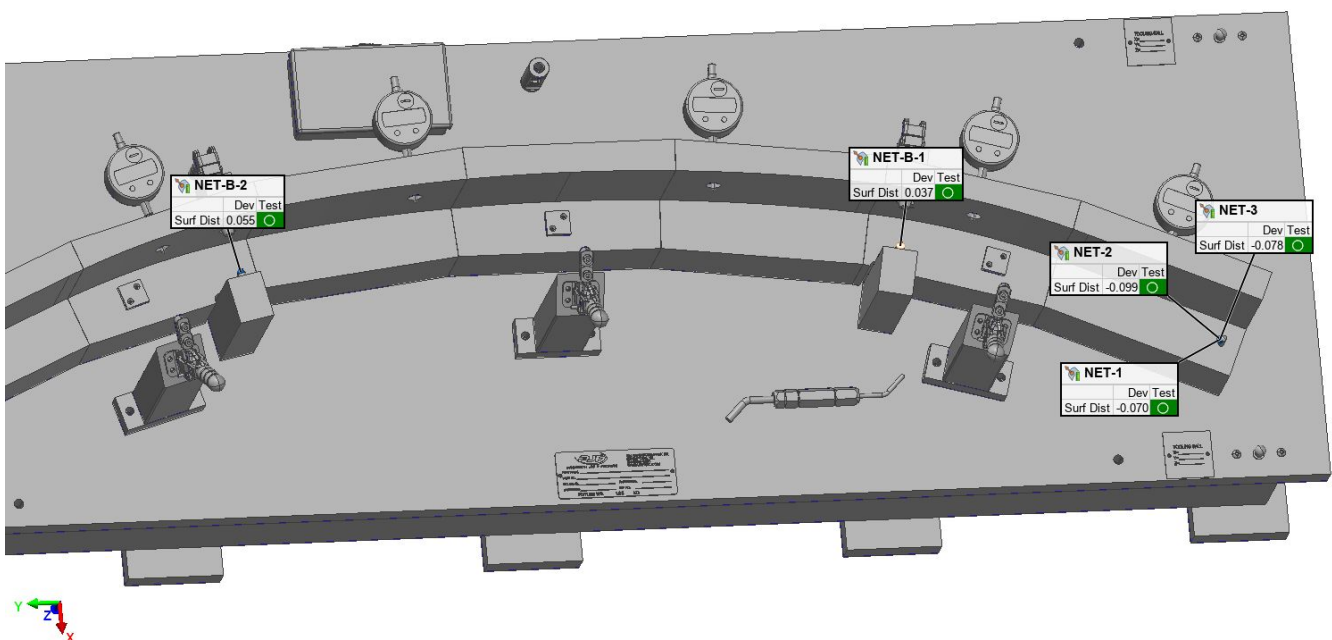
Customer: WHITEHALL INDUSTRIES
Operator: Cesar Hernandez
E-mail: cesar.hernandez@mess.com.mx

Part name: LG4338
Part number: 1687603-00
Piece: piece 2

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Customer: WHITEHALL INDUSTRIES
Operator: Cesar Hernandez
E-mail: cesar.hernandez@mess.com.mx

Part name: LG4338
Part number: 1687603-00
Piece: piece 2

Comparison Point Table

Units Millimeters

Name	Control	Meas	Tol	Dev	Test
 NET-A-1	Surface Distance	0.068	±0.100	0.068	Pass
 NET-A-2	Surface Distance	0.058	±0.100	0.058	Pass
 NET-A-3	Surface Distance	0.095	±0.100	0.095	Pass
 NET-A-4	Surface Distance	0.095	±0.100	0.095	Pass
 NET-A-5	Surface Distance	0.069	±0.100	0.069	Pass
 NET-A-6	Surface Distance	0.040	±0.100	0.040	Pass
 NET-A-7	Surface Distance	0.089	±0.100	0.089	Pass
 NET-A-8	Surface Distance	0.051	±0.100	0.051	Pass
 NET-A-9	Surface Distance	0.044	±0.100	0.044	Pass
 NET-A-10	Surface Distance	0.071	±0.100	0.071	Pass
 NET-A-11	Surface Distance	0.043	±0.100	0.043	Pass
 NET-A-12	Surface Distance	0.026	±0.100	0.026	Pass
 NET-A-13	Surface Distance	0.060	±0.100	0.060	Pass
 NET-A-14	Surface Distance	0.081	±0.100	0.081	Pass
 NET-A-15	Surface Distance	0.010	±0.100	0.010	Pass
 NET-A-16	Surface Distance	-0.015	±0.100	-0.015	Pass
 NET-A-17	Surface Distance	-0.023	±0.100	-0.023	Pass
 NET-A-18	Surface Distance	0.004	±0.100	0.004	Pass
 NET-A-19	Surface Distance	-0.044	±0.100	-0.044	Pass
 NET-A-20	Surface Distance	-0.031	±0.100	-0.031	Pass
 NET-A-21	Surface Distance	-0.019	±0.100	-0.019	Pass
 NET-B-1	Surface Distance	0.037	±0.100	0.037	Pass
 NET-B-2	Surface Distance	0.055	±0.100	0.055	Pass
 NET-1	Surface Distance	-0.070	±0.100	-0.070	Pass
 NET-2	Surface Distance	-0.099	±0.100	-0.099	Pass
 NET-3	Surface Distance	-0.078	±0.100	-0.078	Pass

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Part name: LG4338
 Part number: 1687603-00
 Piece: piece 2

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Feeler-19	Dev Test
Surf Dist -0.023	○
Feeler-21	Dev Test
Surf Dist -0.060	○
Feeler-20	Dev Test
Surf Dist -0.055	○
Feeler-23	Dev Test
Surf Dist -0.021	○
Feeler-22	Dev Test
Surf Dist -0.050	○
Feeler-18	Dev Test
Surf Dist -0.023	○

Feeler-17	Dev Test
Surf Dist -0.018	○
Feeler-16	Dev Test
Surf Dist -0.022	○
Feeler-15	Dev Test
Surf Dist -0.021	○
Feeler-14	Dev Test
Surf Dist -0.022	○
Feeler-13	Dev Test
Surf Dist -0.023	○
Feeler-12	Dev Test
Surf Dist -0.005	○

Feeler-11	Dev Test
Surf Dist -0.015	○
Feeler-9	Dev Test
Surf Dist -0.026	○
Feeler-10	Dev Test
Surf Dist -0.026	○
Feeler-7	Dev Test
Surf Dist -0.051	○
Feeler-8	Dev Test
Surf Dist -0.041	○
Feeler-5	Dev Test
Surf Dist 0.000	○
Feeler-3	Dev Test
Surf Dist -0.015	○
Feeler-1	Dev Test
Surf Dist -0.059	○
Feeler-2	Dev Test
Surf Dist -0.031	○
Feeler-4	Dev Test
Surf Dist -0.003	○
Feeler-6	Dev Test
Surf Dist -0.062	○



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Feeler-37	Dev Test
Surf Dist -0.067	○
Feeler-40	Dev Test
Surf Dist -0.065	○
Feeler-39	Dev Test
Surf Dist -0.060	○
Feeler-42	Dev Test
Surf Dist 0.000	○
Feeler-41	Dev Test
Surf Dist -0.058	○
Feeler-44	Dev Test
Surf Dist -0.006	○
Feeler-46	Dev Test
Surf Dist -0.012	○
Feeler-48	Dev Test
Surf Dist -0.014	○
Feeler-47	Dev Test
Surf Dist -0.007	○
Feeler-45	Dev Test
Surf Dist -0.004	○
Feeler-43	Dev Test
Surf Dist 0.011	○

Feeler-38	Dev Test
Surf Dist -0.092	○
Feeler-36	Dev Test
Surf Dist -0.051	○
Feeler-35	Dev Test
Surf Dist -0.044	○
Feeler-34	Dev Test
Surf Dist -0.056	○
Feeler-33	Dev Test
Surf Dist 0.019	○
Feeler-32	Dev Test
Surf Dist 0.016	○
Feeler-30	Dev Test
Surf Dist 0.018	○
Feeler-31	Dev Test
Surf Dist 0.028	○

Feeler-28	Dev Test
Surf Dist 0.018	○
Feeler-26	Dev Test
Surf Dist -0.008	○
Feeler-24	Dev Test
Surf Dist -0.027	○
Feeler-25	Dev Test
Surf Dist -0.008	○
Feeler-27	Dev Test
Surf Dist 0.033	○
Feeler-29	Dev Test
Surf Dist 0.025	○

Customer: WHITEHALL INDUSTRIES
Operator: Cesar Hernandez
E-mail: cesar.hernandez@mess.com.mx

Part name: LG4338
Part number: 1687603-00
Piece: piece 2

Comparison Point Table

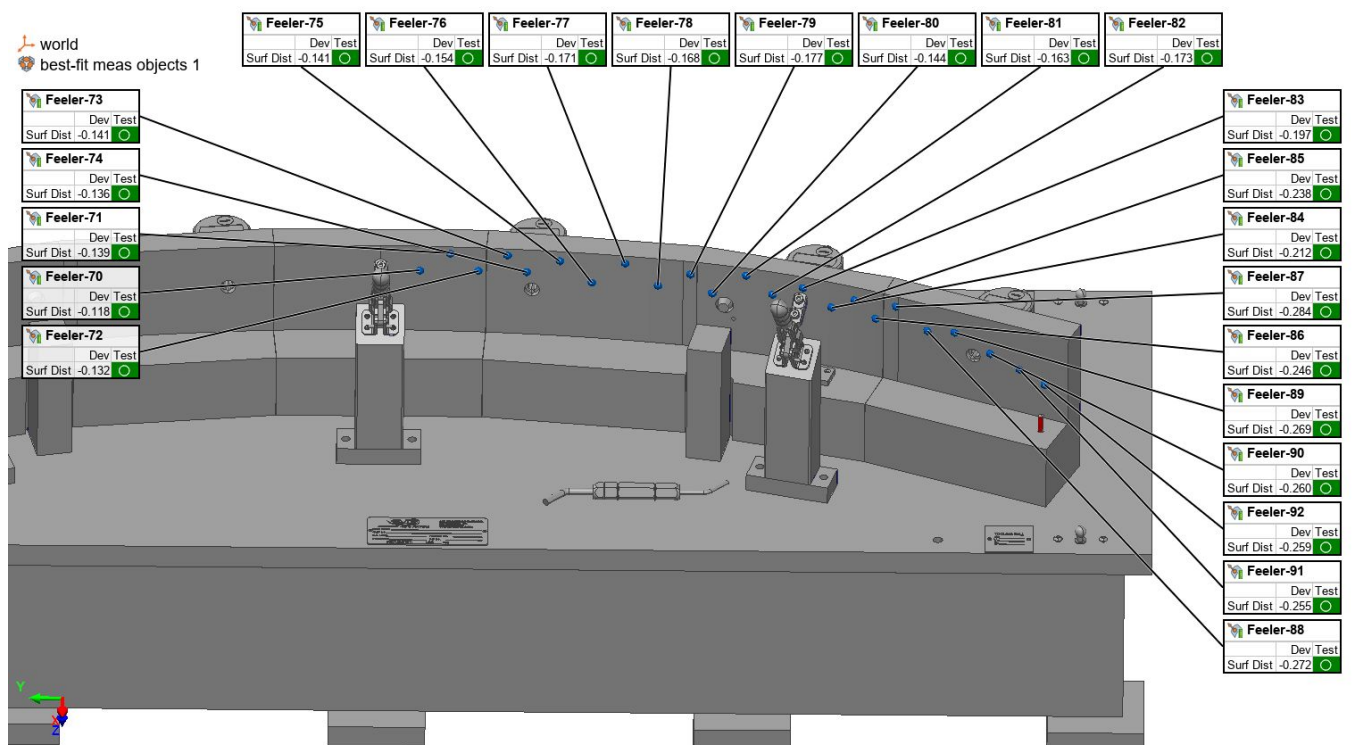
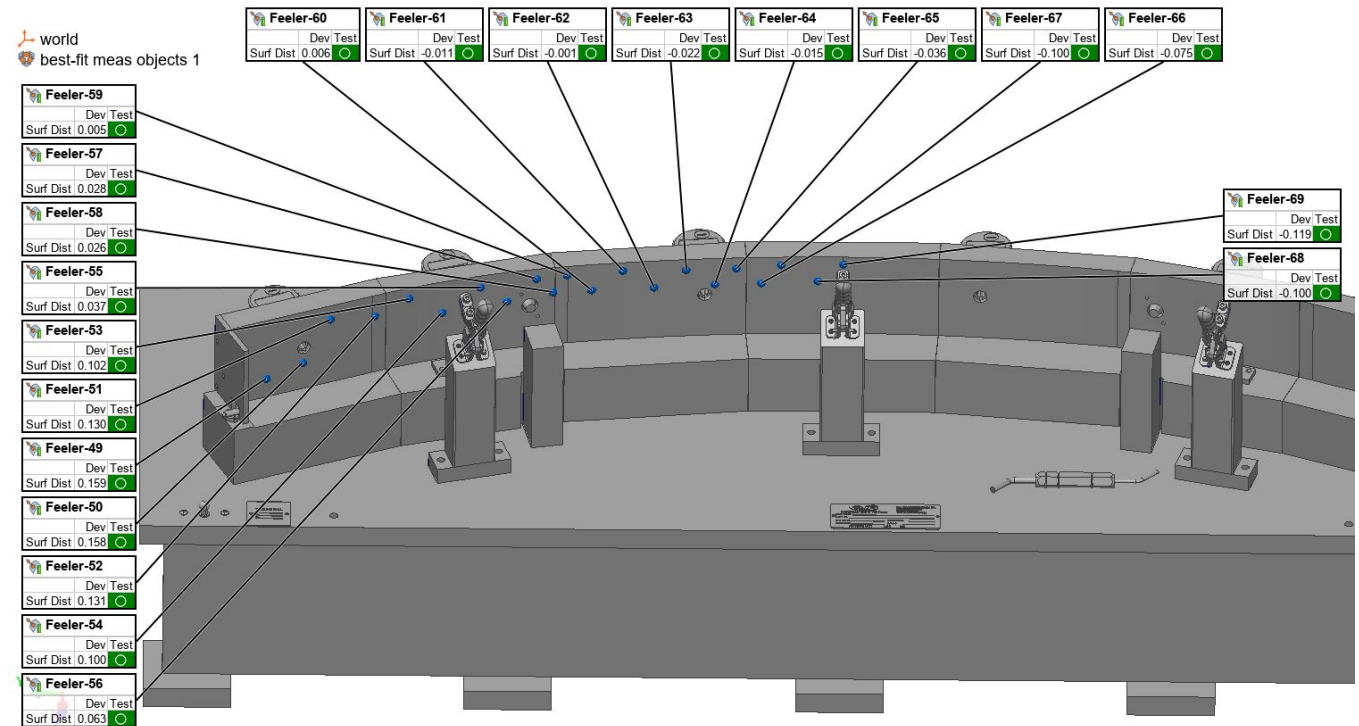
Units Millimeters

Name	Control	Meas	Tol	Dev	Test
 Feeler-1	Surface Distance	-0.059	±0.300	-0.059	Pass
 Feeler-2	Surface Distance	-0.031	±0.300	-0.031	Pass
 Feeler-3	Surface Distance	-0.015	±0.300	-0.015	Pass
 Feeler-4	Surface Distance	-0.003	±0.300	-0.003	Pass
 Feeler-5	Surface Distance	0.000	±0.300	0.000	Pass
 Feeler-6	Surface Distance	-0.062	±0.300	-0.062	Pass
 Feeler-7	Surface Distance	-0.051	±0.300	-0.051	Pass
 Feeler-8	Surface Distance	-0.041	±0.300	-0.041	Pass
 Feeler-9	Surface Distance	-0.026	±0.300	-0.026	Pass
 Feeler-10	Surface Distance	-0.026	±0.300	-0.026	Pass
 Feeler-11	Surface Distance	-0.015	±0.300	-0.015	Pass
 Feeler-12	Surface Distance	-0.005	±0.300	-0.005	Pass
 Feeler-13	Surface Distance	-0.023	±0.300	-0.023	Pass
 Feeler-14	Surface Distance	-0.022	±0.300	-0.022	Pass
 Feeler-15	Surface Distance	-0.021	±0.300	-0.021	Pass
 Feeler-16	Surface Distance	-0.022	±0.300	-0.022	Pass
 Feeler-17	Surface Distance	-0.018	±0.300	-0.018	Pass
 Feeler-18	Surface Distance	-0.023	±0.300	-0.023	Pass
 Feeler-19	Surface Distance	-0.023	±0.300	-0.023	Pass
 Feeler-20	Surface Distance	-0.055	±0.300	-0.055	Pass
 Feeler-21	Surface Distance	-0.060	±0.300	-0.060	Pass
 Feeler-22	Surface Distance	-0.050	±0.300	-0.050	Pass
 Feeler-23	Surface Distance	-0.021	±0.300	-0.021	Pass
 Feeler-24	Surface Distance	-0.027	±0.300	-0.027	Pass
 Feeler-25	Surface Distance	-0.008	±0.300	-0.008	Pass
 Feeler-26	Surface Distance	-0.008	±0.300	-0.008	Pass
 Feeler-27	Surface Distance	0.033	±0.300	0.033	Pass
 Feeler-28	Surface Distance	0.018	±0.300	0.018	Pass
 Feeler-29	Surface Distance	0.025	±0.300	0.025	Pass
 Feeler-30	Surface Distance	0.018	±0.300	0.018	Pass
 Feeler-31	Surface Distance	0.028	±0.300	0.028	Pass
 Feeler-32	Surface Distance	0.016	±0.300	0.016	Pass
 Feeler-33	Surface Distance	0.019	±0.300	0.019	Pass
 Feeler-34	Surface Distance	-0.056	±0.300	-0.056	Pass
 Feeler-35	Surface Distance	-0.044	±0.300	-0.044	Pass
 Feeler-36	Surface Distance	-0.051	±0.300	-0.051	Pass
 Feeler-37	Surface Distance	-0.067	±0.300	-0.067	Pass
 Feeler-38	Surface Distance	-0.092	±0.300	-0.092	Pass
 Feeler-39	Surface Distance	-0.060	±0.300	-0.060	Pass
 Feeler-40	Surface Distance	-0.065	±0.300	-0.065	Pass
 Feeler-41	Surface Distance	-0.058	±0.300	-0.058	Pass
 Feeler-42	Surface Distance	0.000	±0.300	0.000	Pass

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Part name: LG4338
Part number: 1687603-00
Piece: piece 2

Feeler-43	Surface Distance	0.011	±0.300	0.011	Pass
Feeler-44	Surface Distance	-0.006	±0.300	-0.006	Pass
Feeler-45	Surface Distance	-0.004	±0.300	-0.004	Pass
Feeler-46	Surface Distance	-0.012	±0.300	-0.012	Pass
Feeler-47	Surface Distance	-0.007	±0.300	-0.007	Pass
Feeler-48	Surface Distance	-0.014	±0.300	-0.014	Pass



Customer: WHITEHALL INDUSTRIES
Operator: Cesar Hernandez
E-mail: cesar.hernandez@mess.com.mx

Part name: LG4338
Part number: 1687603-00
Piece: piece 2

Comparison Point Table

Units Millimeters

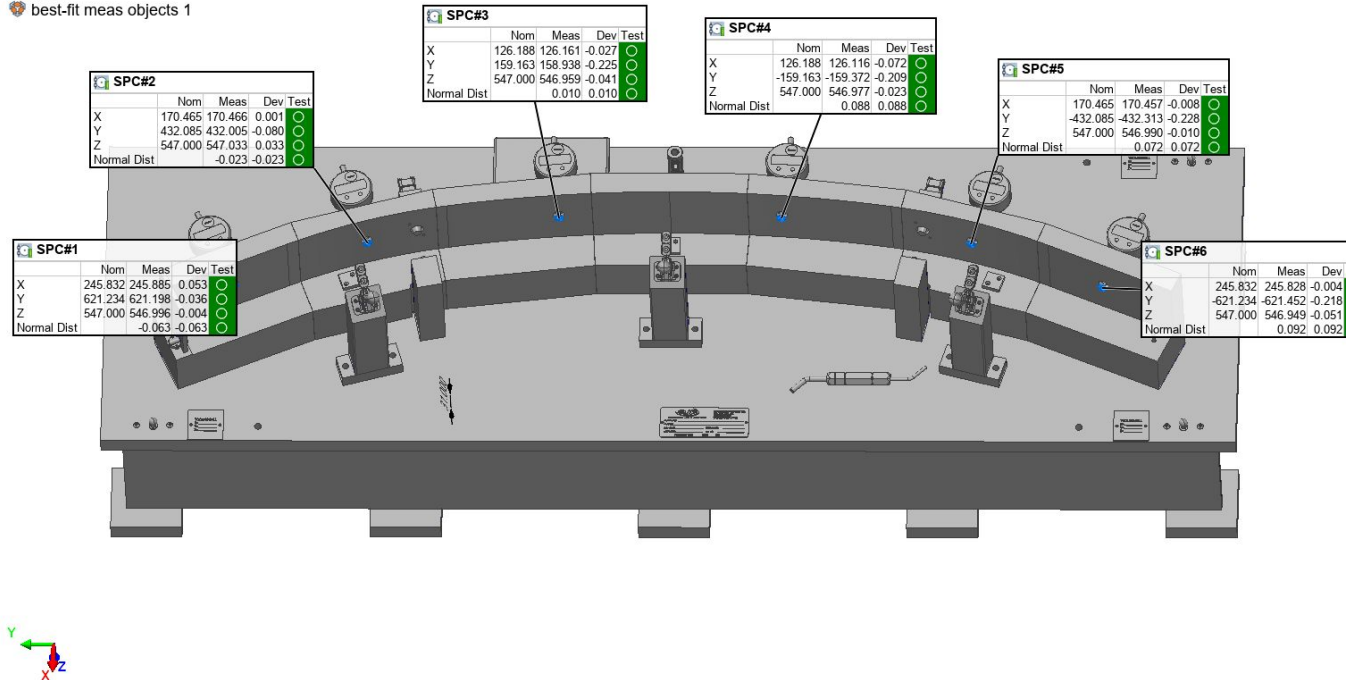
Name	Control	Meas	Tol	Dev	Test
 Feeler-49	Surface Distance	0.159	±0.300	0.159	Pass
 Feeler-50	Surface Distance	0.158	±0.300	0.158	Pass
 Feeler-51	Surface Distance	0.130	±0.300	0.130	Pass
 Feeler-52	Surface Distance	0.131	±0.300	0.131	Pass
 Feeler-53	Surface Distance	0.102	±0.300	0.102	Pass
 Feeler-54	Surface Distance	0.100	±0.300	0.100	Pass
 Feeler-55	Surface Distance	0.037	±0.300	0.037	Pass
 Feeler-56	Surface Distance	0.063	±0.300	0.063	Pass
 Feeler-57	Surface Distance	0.028	±0.300	0.028	Pass
 Feeler-58	Surface Distance	0.026	±0.300	0.026	Pass
 Feeler-59	Surface Distance	0.005	±0.300	0.005	Pass
 Feeler-60	Surface Distance	0.006	±0.300	0.006	Pass
 Feeler-61	Surface Distance	-0.011	±0.300	-0.011	Pass
 Feeler-62	Surface Distance	-0.001	±0.300	-0.001	Pass
 Feeler-63	Surface Distance	-0.022	±0.300	-0.022	Pass
 Feeler-64	Surface Distance	-0.015	±0.300	-0.015	Pass
 Feeler-65	Surface Distance	-0.036	±0.300	-0.036	Pass
 Feeler-66	Surface Distance	-0.075	±0.300	-0.075	Pass
 Feeler-67	Surface Distance	-0.100	±0.300	-0.100	Pass
 Feeler-68	Surface Distance	-0.100	±0.300	-0.100	Pass
 Feeler-69	Surface Distance	-0.119	±0.300	-0.119	Pass
 Feeler-70	Surface Distance	-0.118	±0.300	-0.118	Pass
 Feeler-71	Surface Distance	-0.139	±0.300	-0.139	Pass
 Feeler-72	Surface Distance	-0.132	±0.300	-0.132	Pass
 Feeler-73	Surface Distance	-0.141	±0.300	-0.141	Pass
 Feeler-74	Surface Distance	-0.136	±0.300	-0.136	Pass
 Feeler-75	Surface Distance	-0.141	±0.300	-0.141	Pass
 Feeler-76	Surface Distance	-0.154	±0.300	-0.154	Pass
 Feeler-77	Surface Distance	-0.171	±0.300	-0.171	Pass
 Feeler-78	Surface Distance	-0.168	±0.300	-0.168	Pass
 Feeler-79	Surface Distance	-0.177	±0.300	-0.177	Pass
 Feeler-80	Surface Distance	-0.144	±0.300	-0.144	Pass
 Feeler-81	Surface Distance	-0.163	±0.300	-0.163	Pass
 Feeler-82	Surface Distance	-0.173	±0.300	-0.173	Pass
 Feeler-83	Surface Distance	-0.197	±0.300	-0.197	Pass
 Feeler-84	Surface Distance	-0.212	±0.300	-0.212	Pass
 Feeler-85	Surface Distance	-0.238	±0.300	-0.238	Pass
 Feeler-86	Surface Distance	-0.246	±0.300	-0.246	Pass
 Feeler-87	Surface Distance	-0.284	±0.300	-0.284	Pass
 Feeler-88	Surface Distance	-0.272	±0.300	-0.272	Pass
 Feeler-89	Surface Distance	-0.269	±0.300	-0.269	Pass
 Feeler-90	Surface Distance	-0.260	±0.300	-0.260	Pass

Customer: WHITEHALL INDUSTRIES
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Part name: LG4338
Part number: 1687603-00
Piece: piece 2

Feeler-91	Surface Distance	-0.255	±0.300	-0.255	Pass
Feeler-92	Surface Distance	-0.259	±0.300	-0.259	Pass

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SPC'S

Length Units Millimeters

SPC#1

Control	Nom	Meas	Tol	Dev	Test
X	245.832	245.885	±0.250	0.053	Pass
Y	621.234	621.198	±0.250	-0.036	Pass
Z	547.000	546.996	±0.250	-0.004	Pass
Normal Distance		-0.063	±0.100	-0.063	Pass

SPC#2

Control	Nom	Meas	Tol	Dev	Test
X	170.465	170.466	±0.250	0.001	Pass
Y	432.085	432.005	±0.250	-0.080	Pass
Z	547.000	547.033	±0.250	0.033	Pass
Normal Distance		-0.023	±0.100	-0.023	Pass

Customer: WHITEHALL INDUSTRIES
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Part name: LG4338
Part number: 1687603-00
Piece: piece 2

SPC#3

Control	Nom	Meas	Tol	Dev	Test
X	126.188	126.161	±0.250	-0.027	Pass
Y	159.163	158.938	±0.250	-0.225	Pass
Z	547.000	546.959	±0.250	-0.041	Pass
Normal Distance		0.010	±0.100	0.010	Pass

SPC#4

Control	Nom	Meas	Tol	Dev	Test
X	126.188	126.116	±0.250	-0.072	Pass
Y	-159.163	-159.372	±0.250	-0.209	Pass
Z	547.000	546.977	±0.250	-0.023	Pass
Normal Distance		0.088	±0.100	0.088	Pass

SPC#5

Control	Nom	Meas	Tol	Dev	Test
X	170.465	170.457	±0.250	-0.008	Pass
Y	-432.085	-432.313	±0.250	-0.228	Pass
Z	547.000	546.990	±0.250	-0.010	Pass
Normal Distance		0.072	±0.100	0.072	Pass

SPC#6

Control	Nom	Meas	Tol	Dev	Test
X	245.832	245.828	±0.250	-0.004	Pass
Y	-621.234	-621.452	±0.250	-0.218	Pass
Z	547.000	546.949	±0.250	-0.051	Pass
Normal Distance		0.092	±0.100	0.092	Pass

MASTER 31 mm

Length Units Millimeters

distance 1

Feature: plane 4, Ref Feature: plane 3

Control	Nom	Meas	Tol	Dev	Test
3D Distance	31.000	31.000	±0.050	0.000	Pass

Customer: WHITEHALL INDUSTRIES
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 E-mail: cesar.hernandez@mess.com.mx

Part name: LG4338
 Part number: 1687603-00
 Piece: piece 2