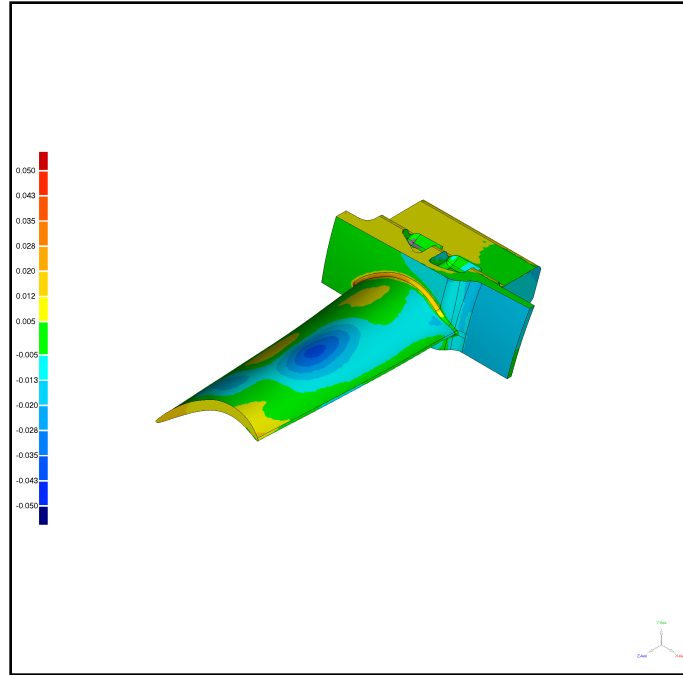


Qualify Report

Date Inspected: 3/31/2008
Date Generated: 4/23/2009, 9:46 am



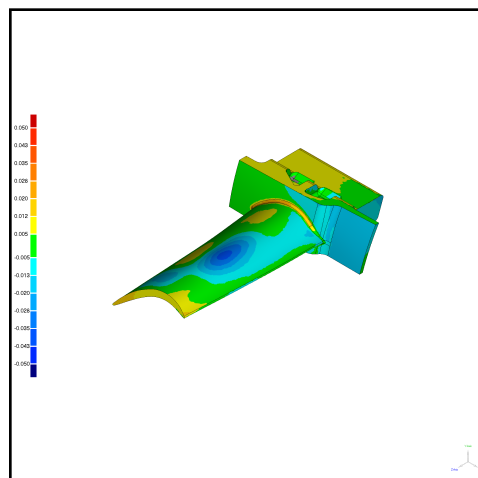
Part: Blade-CAD
Test: Blade Scan 2

3D Comparison Results

Reference Model	Blade-CAD
Test Model	Blade Scan 2
No. of Data Points	250135
# Outliers	2760

Tolerance Type	3D Deviation
Units	in
Max. Critical	0.050
Max. Nominal	0.005
Min. Nominal	-0.005
Min. Critical	-0.050

Deviation	in
Max. Upper Dev.	0.041
Max. Lower Dev.	-0.038
Average Deviation	0.007 /-0.007
Standard Deviation	0.009



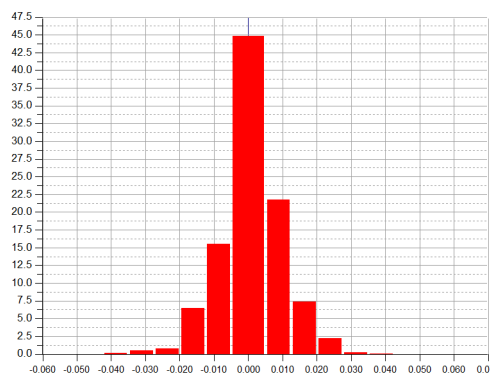
Percentage Deviations

>=Min	<Max	# Points	%
-0.050	-0.043	0	0.000
-0.043	-0.035	421	0.168
-0.035	-0.028	1355	0.542
-0.028	-0.020	1956	0.782
-0.020	-0.013	16138	6.452
-0.013	-0.005	38912	15.556
-0.005	0.005	112250	44.876
0.005	0.012	54373	21.737
0.012	0.020	18553	7.417
0.020	0.028	5609	2.242
0.028	0.035	522	0.209
0.035	0.043	46	0.018
0.043	0.050	0	0.000

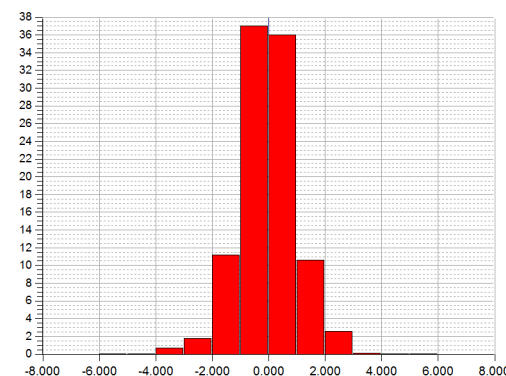
Out of Upper Critical	0	0.000
Out of Lower Critical	0	0.000

Standard Deviations

Distribution (+/-)	# Points	%
-6 * Std. Dev.	0	0.000
-5 * Std. Dev.	168	0.067
-4 * Std. Dev.	1651	0.660
-3 * Std. Dev.	4435	1.773
-2 * Std. Dev.	27929	11.166
-1 * Std. Dev.	92657	37.043
1 * Std. Dev.	90046	35.999
2 * Std. Dev.	26468	10.581
3 * Std. Dev.	6504	2.600
4 * Std. Dev.	267	0.107
5 * Std. Dev.	10	0.004
6 * Std. Dev.	0	0.000

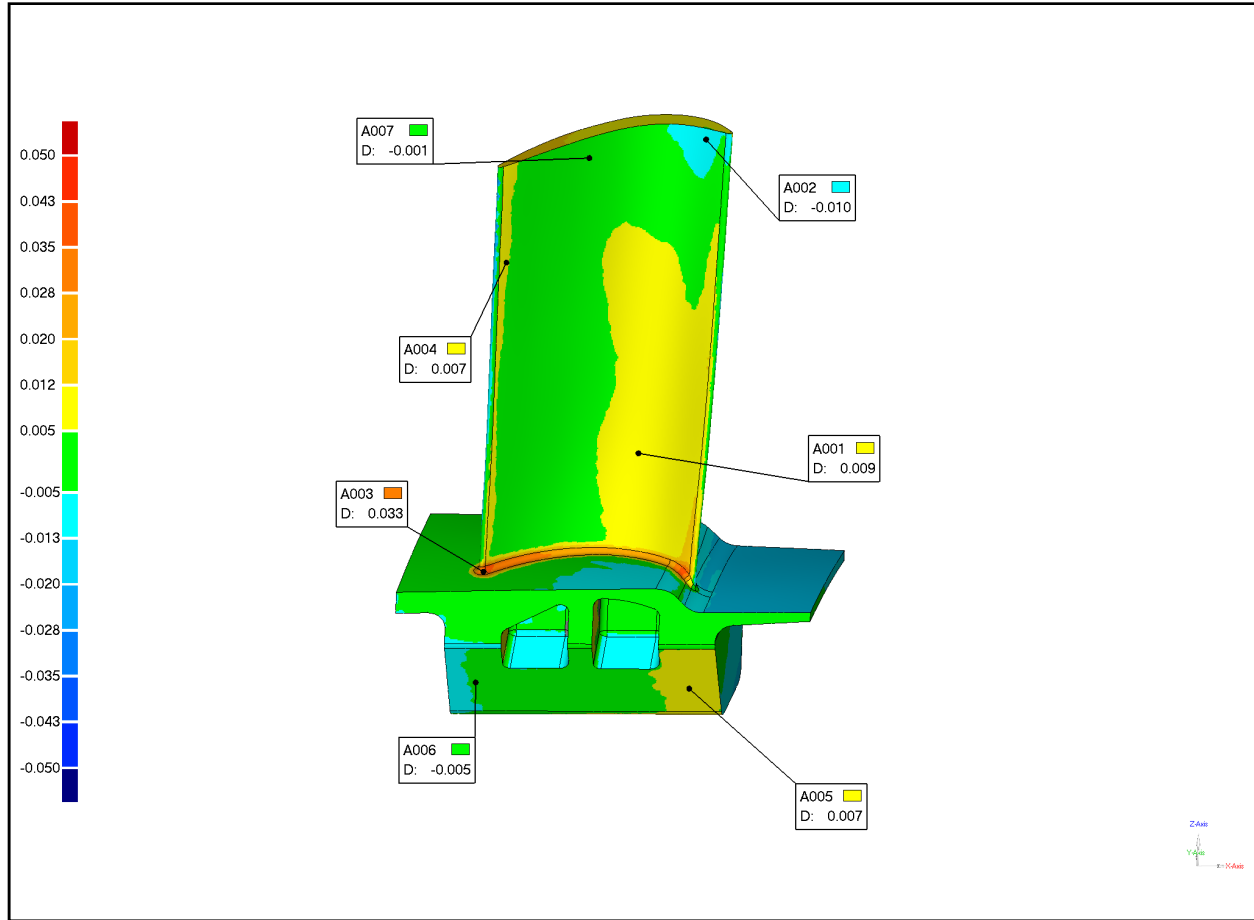


Deviation Distribution



Standard Deviations

Annotated: Annotation View 1



Units:in

CSYS: World CSYS

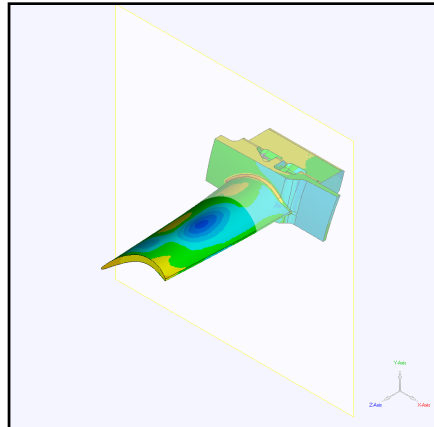
Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
A001	0.009	PASS	0.010	-0.010	-0.065	0.061	5.948	0.039	-0.002	-0.009	0.001	-0.067	0.052	5.949
A002	-0.010	PASS	0.010	-0.010	0.341	0.080	8.412	0.039	0.004	0.009	-0.001	0.345	0.088	8.412
A003	0.033	FAIL	0.010	-0.010	-1.155	-0.300	5.193	0.039	0.007	-0.018	0.027	-1.148	-0.318	5.220
A004	0.007	PASS	0.010	-0.010	-1.074	-0.460	7.710	0.039	0.004	-0.006	-0.000	-1.070	-0.465	7.710
A005	0.007	PASS	0.010	-0.010	0.321	-0.333	4.294	0.039	0.000	-0.006	-0.003	0.321	-0.340	4.291
A006	-0.005	PASS	0.010	-0.010	-1.188	-0.361	4.351	0.039	-0.000	0.004	0.002	-1.188	-0.357	4.353
A007	-0.001	PASS	0.010	-0.010	-0.487	-0.064	8.336	0.039	-0.000	0.001	0.000	-0.488	-0.063	8.336

Annotated: All

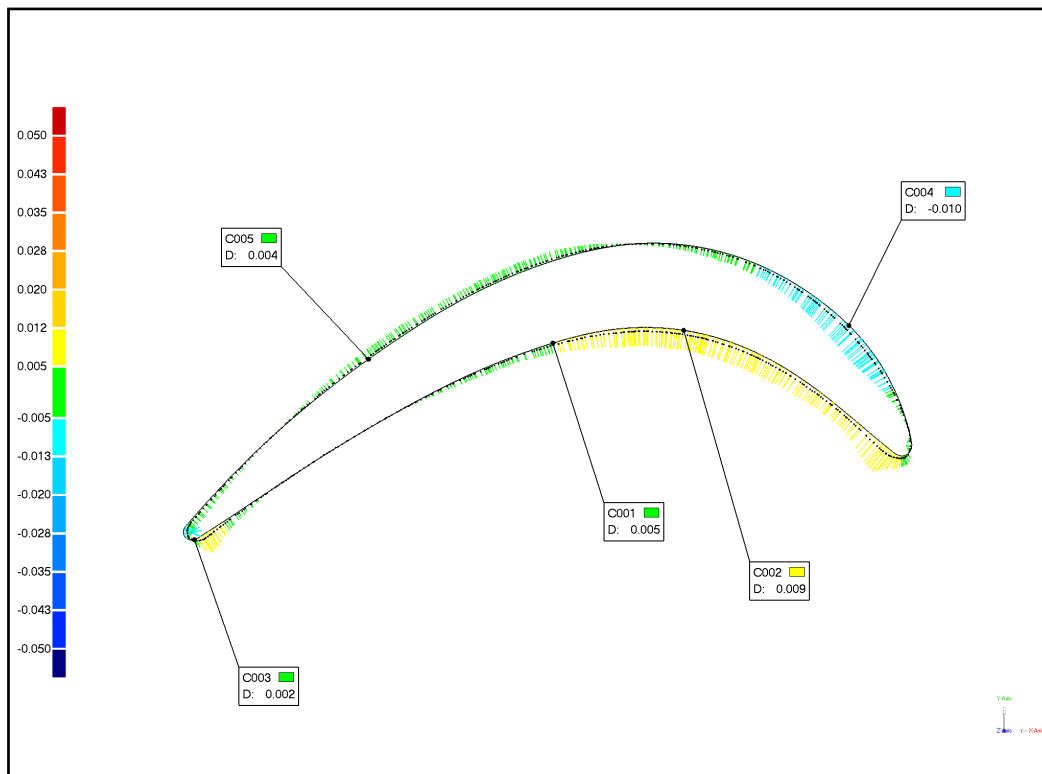
Units:in

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
A001	0.009	PASS	0.010	-0.010	-0.065	0.061	5.948	0.039	-0.002	-0.009	0.001	-0.067	0.052	5.949
A002	-0.010	PASS	0.010	-0.010	0.341	0.080	8.412	0.039	0.004	0.009	-0.001	0.345	0.088	8.412
A003	0.033	FAIL	0.010	-0.010	-1.155	-0.300	5.193	0.039	0.007	-0.018	0.027	-1.148	-0.318	5.220
A004	0.007	PASS	0.010	-0.010	-1.074	-0.460	7.710	0.039	0.004	-0.006	-0.000	-1.070	-0.465	7.710
A005	0.007	PASS	0.010	-0.010	0.321	-0.333	4.294	0.039	0.000	-0.006	-0.003	0.321	-0.340	4.291
A006	-0.005	PASS	0.010	-0.010	-1.188	-0.361	4.351	0.039	-0.000	0.004	0.002	-1.188	-0.357	4.353
A007	-0.001	PASS	0.010	-0.010	-0.487	-0.064	8.336	0.039	-0.000	0.001	0.000	-0.488	-0.063	8.336

Compare 2D: Comparison 1



Z = 6.000 in



Method: Planar Deviation

Whisker Scale: 4.800000

Units:in

CSYS: World CSYS

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
C001	0.005	PASS	0.010	-0.010	-0.372	0.042	6.000		0.001	-0.004	0.000	-0.371	0.038	6.000
C002	0.009	PASS	0.010	-0.010	-0.088	0.070	6.000		-0.001	-0.009	0.000	-0.090	0.061	6.000
C003	0.002	PASS	0.010	-0.010	-1.150	-0.384	6.000		0.000	-0.002	0.000	-1.150	-0.386	6.000

Name	Dev	Status	Upper Tol.	Lower Tol.	Ref X	Ref Y	Ref Z	Dev Radius	Dev X	Dev Y	Dev Z	Test X	Test Y	Test Z
C004	-0.010	PASS	0.010	-0.010	0.270	0.080	6.000		-0.007	-0.007	0.000	0.263	0.073	6.000
C005	0.004	PASS	0.010	-0.010	-0.772	0.007	6.000		-0.002	0.003	0.000	-0.774	0.010	6.000

2D Comparison Results

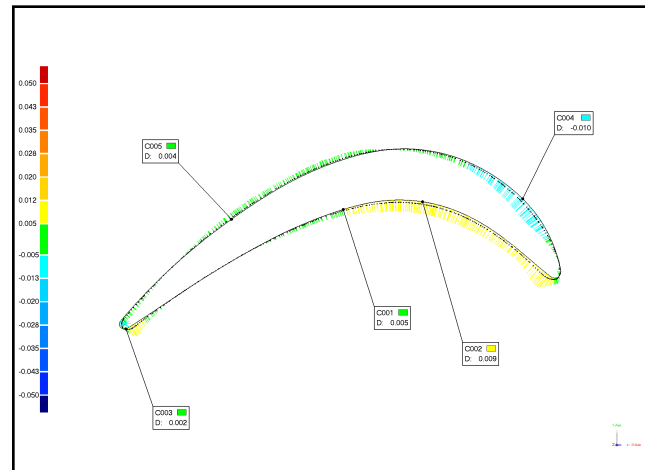
CSYS: World CSYS

Reference Model	Blade-CAD
Test Model	Blade Scan 2

Name	Comparison 1
Location	Z = 6.000 in
No. of Data Points	795

Units	in
Max. Critical	0.050
Max. Nominal	0.005
Min. Nominal	-0.005
Min. Critical	-0.050

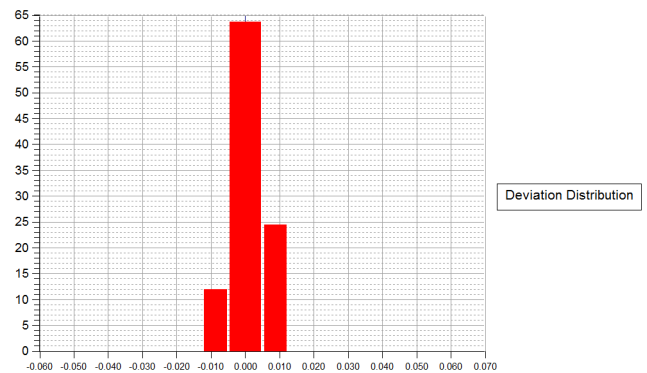
Deviation	in
Max Dev +	0.012
Max Dev -	-0.010
Standard Deviation	0.005



Percentage Deviations

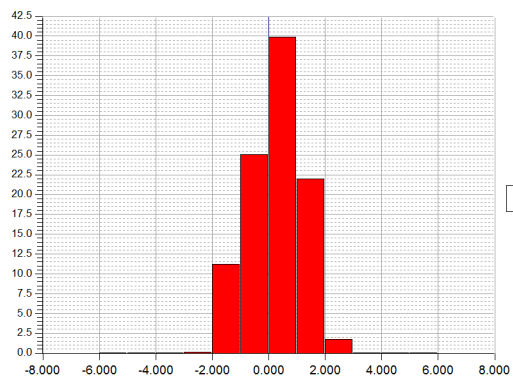
>=Min	<Max	# Points	%
-0.050	-0.043	0	0.000
-0.043	-0.035	0	0.000
-0.035	-0.028	0	0.000
-0.028	-0.020	0	0.000
-0.020	-0.013	0	0.000
-0.013	-0.005	95	11.950
-0.005	0.005	506	63.648
0.005	0.012	194	24.403
0.012	0.020	0	0.000
0.020	0.028	0	0.000
0.028	0.035	0	0.000
0.035	0.043	0	0.000
0.043	0.050	0	0.000

Out of Upper Critical +	0	0.000
Out of Lower Critical -	0	0.000

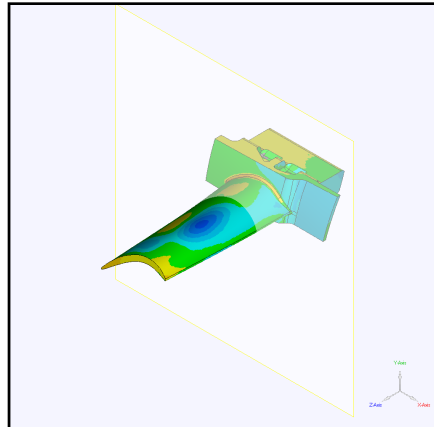


Standard Deviations

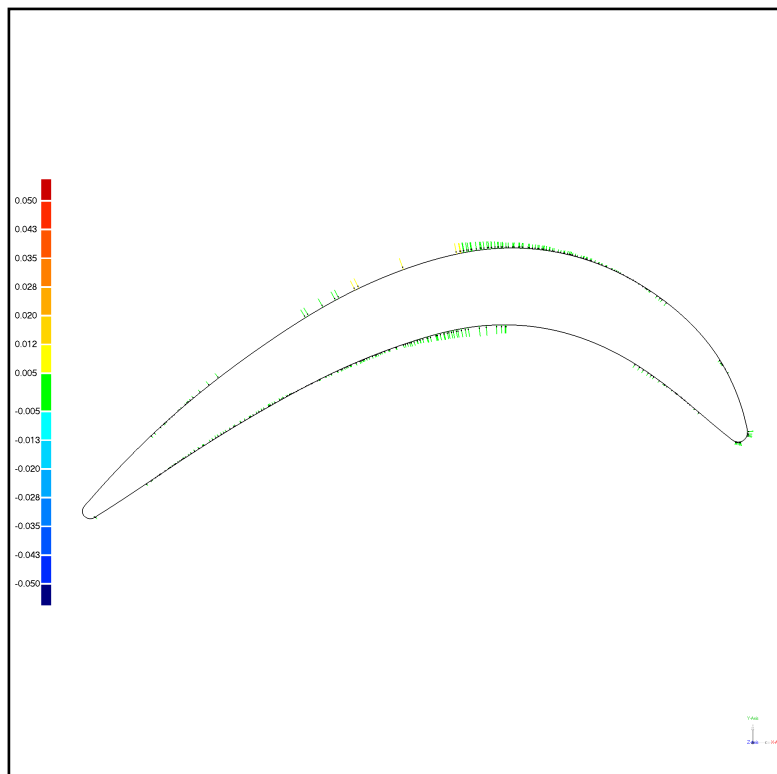
Distribution (+/-)	# Points	%
-6 * Std. Dev.	0	0.000
-5 * Std. Dev.	0	0.000
-4 * Std. Dev.	0	0.000
-3 * Std. Dev.	1	0.126
-2 * Std. Dev.	89	11.195
-1 * Std. Dev.	199	25.031
1 * Std. Dev.	317	39.874
2 * Std. Dev.	175	22.013
3 * Std. Dev.	14	1.761
4 * Std. Dev.	0	0.000
5 * Std. Dev.	0	0.000
6 * Std. Dev.	0	0.000



Compare 2D: Comparison 1 - Twist



Z = 6.000 in



Method: Planar Deviation

Whisker Scale: 4.800000

2D Comparison Results

CSYS: World CSYS

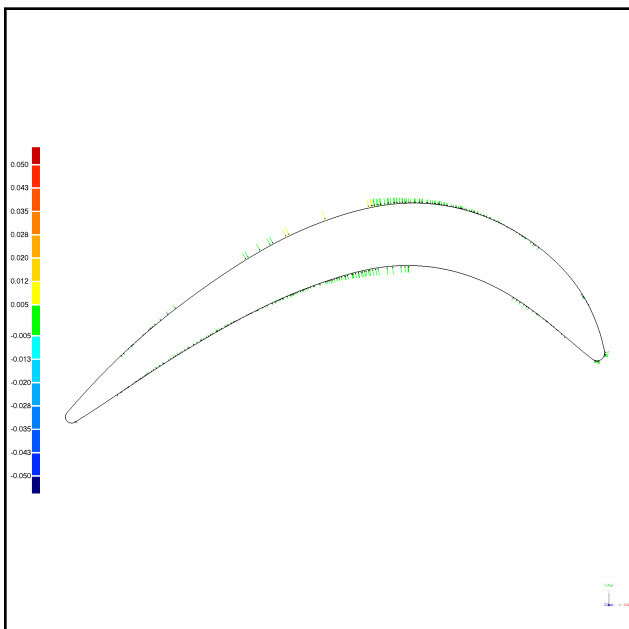
Reference Model	Blade-CAD
Test Model	Blade Scan 2

Name	Comparison 1 - Twist
Location	Z = 6.000 in
No. of Data Points	365

Units	in
Max. Critical	0.050
Max. Nominal	0.005
Min. Nominal	-0.005
Min. Critical	-0.050

Deviation	in
Max Dev +	0.006
Max Dev -	-0.002
Standard Deviation	0.002

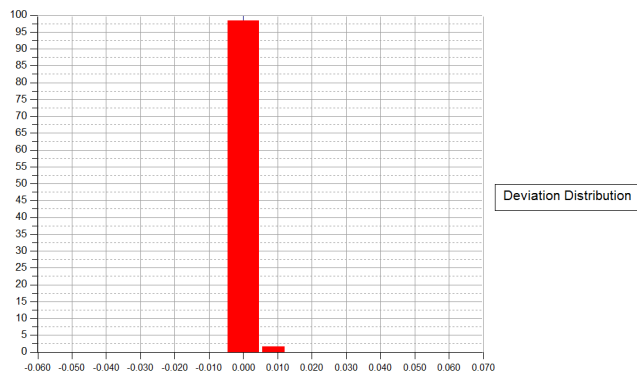
Movement	Amount	Status
Comparison 1 - Translation X	0.006 in	
Comparison 1 - Translation Y	0.004 in	
Comparison 1 - Twist Rotation	0.041 deg	



Percentage Deviations

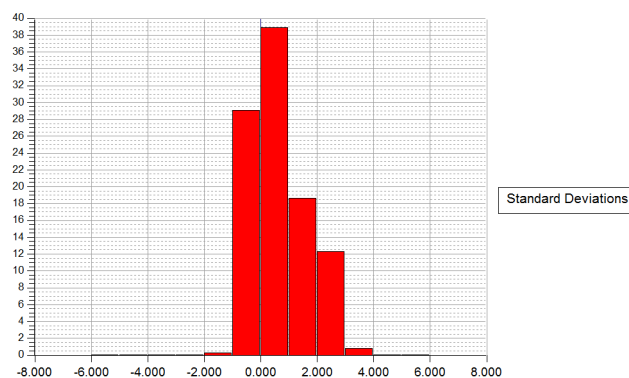
>=Min	<Max	# Points	%
-0.050	-0.043	0	0.000
-0.043	-0.035	0	0.000
-0.035	-0.028	0	0.000
-0.028	-0.020	0	0.000
-0.020	-0.013	0	0.000
-0.013	-0.005	0	0.000
-0.005	0.005	359	98.356
0.005	0.012	6	1.644
0.012	0.020	0	0.000
0.020	0.028	0	0.000
0.028	0.035	0	0.000
0.035	0.043	0	0.000
0.043	0.050	0	0.000

Out of Upper Critical +	0	0.000
Out of Lower Critical -	0	0.000

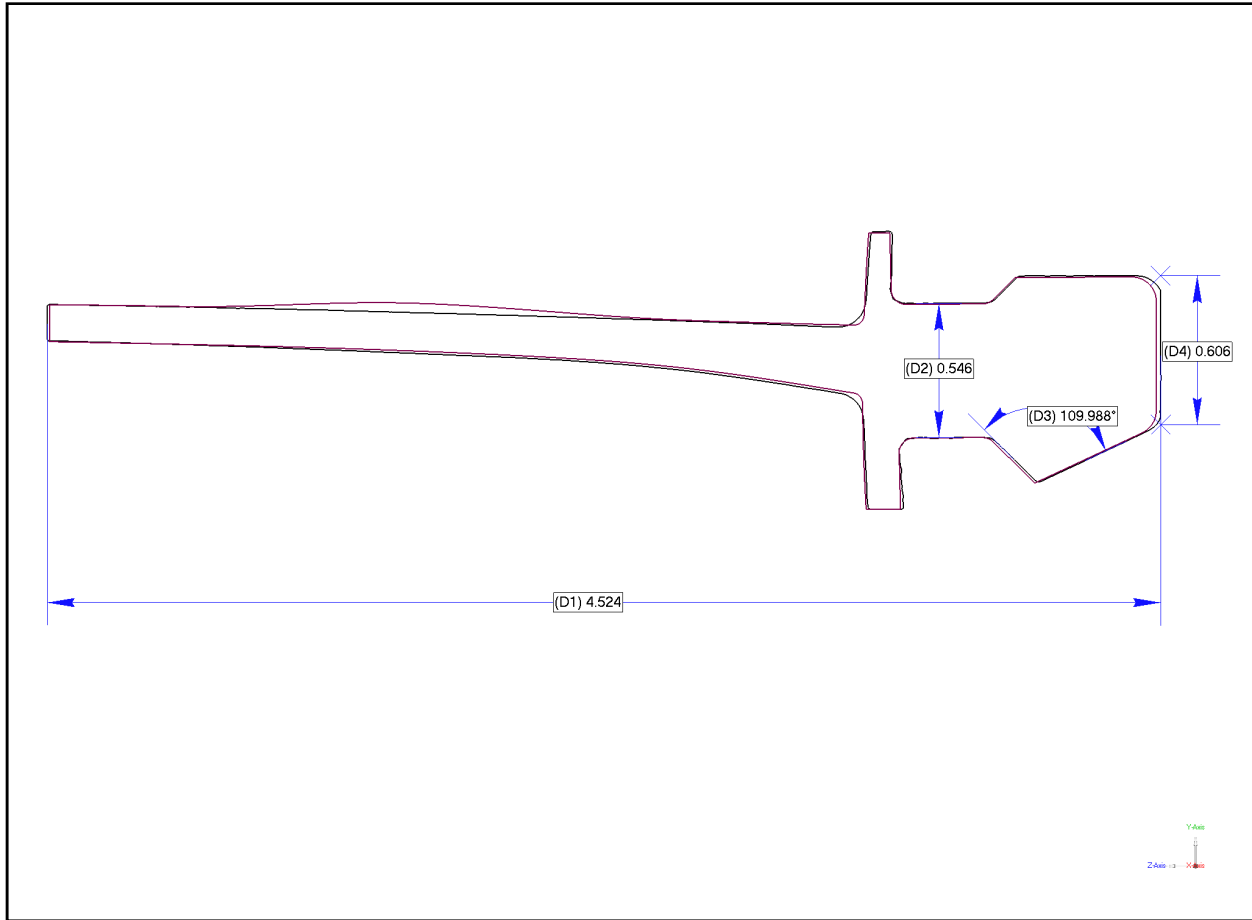


Standard Deviations

Distribution (+/-)	# Points	%
-6 * Std. Dev.	0	0.000
-5 * Std. Dev.	0	0.000
-4 * Std. Dev.	0	0.000
-3 * Std. Dev.	0	0.000
-2 * Std. Dev.	1	0.274
-1 * Std. Dev.	106	29.041
1 * Std. Dev.	142	38.904
2 * Std. Dev.	68	18.630
3 * Std. Dev.	45	12.329
4 * Std. Dev.	3	0.822
5 * Std. Dev.	0	0.000
6 * Std. Dev.	0	0.000



Dimension 2D: Section 1

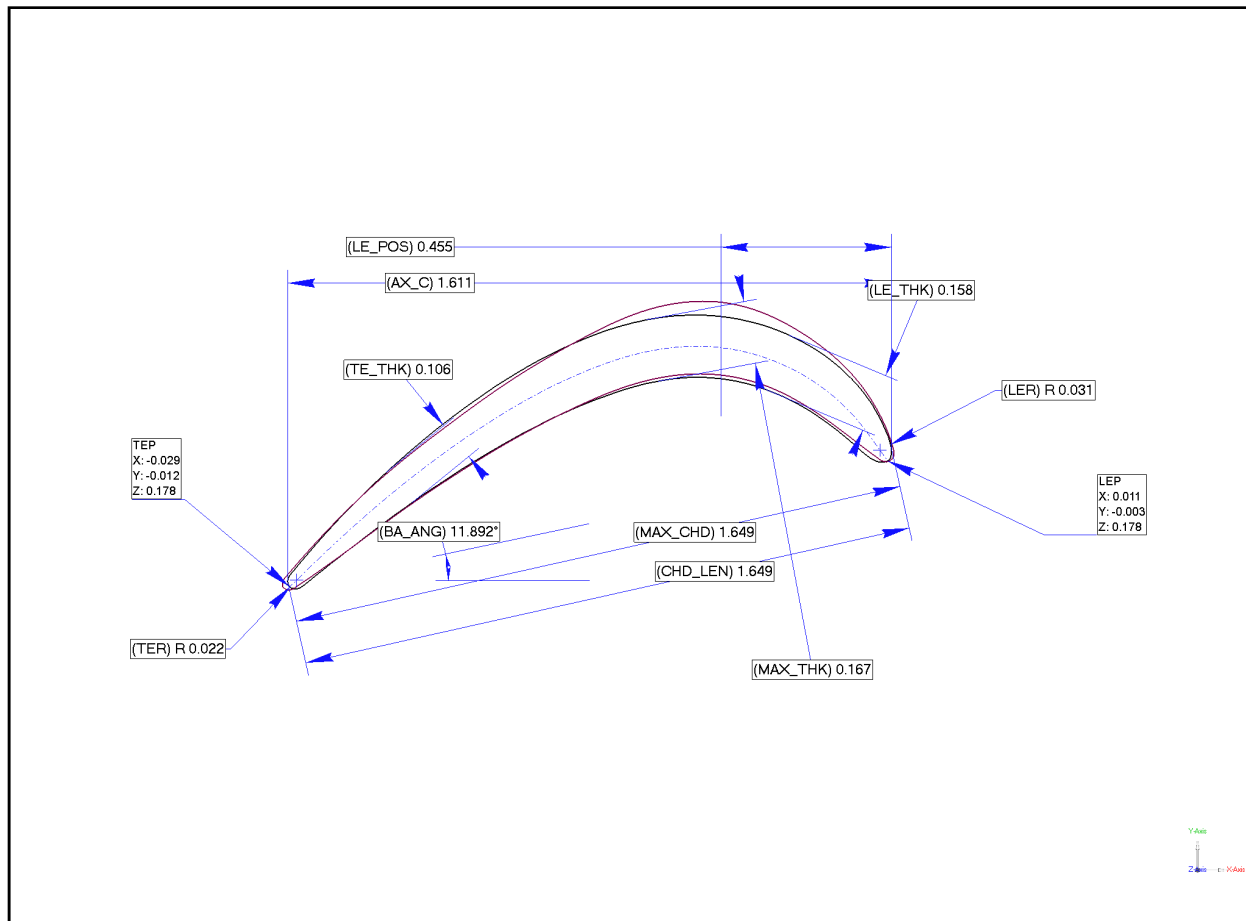


Units:in

CSYS: World CSYS

Name	Measured	Nominal	Deviation	Status	Upper Tol.	Lower Tol.
D1	4.524	4.498	0.026	PASS	0.039	-0.039
D2	0.546	0.542	0.004	PASS	0.039	-0.039
D3	109.988	110.134	-0.146	PASS	1.000	-1.000
D4	0.606	0.607	-0.001	PASS	0.039	-0.039

Dimension 2D: Section 2



Units:in

CSYS: World CSYS

Name	Measured	Nominal	Deviation	Status	Upper Tol.	Lower Tol.
AX_C	1.611	1.632	-0.021	PASS	0.039	-0.039
BA_ANG	11.892	11.885	0.007	PASS	0.100	-0.100
CHD_LEN	1.649	1.670	-0.020	PASS	0.039	-0.039
LE_POS	0.455	0.462	-0.007	PASS	0.039	-0.039
LE_THK	0.158	0.169	-0.012	PASS	0.039	-0.039
LEP	0.011, -0.003, 0.178					
LER	0.031	0.022	0.009	PASS	0.039	-0.039
MAX_CHD	1.649	1.670	-0.020	PASS	0.039	-0.039
MAX_THK	0.167	0.194	-0.027	PASS	0.039	-0.039
TE_THK	0.106	0.104	0.002	PASS	0.039	-0.039
TEP	-0.029, -0.012, 0.178					
TER	0.022	0.018	0.004	PASS	0.039	-0.039