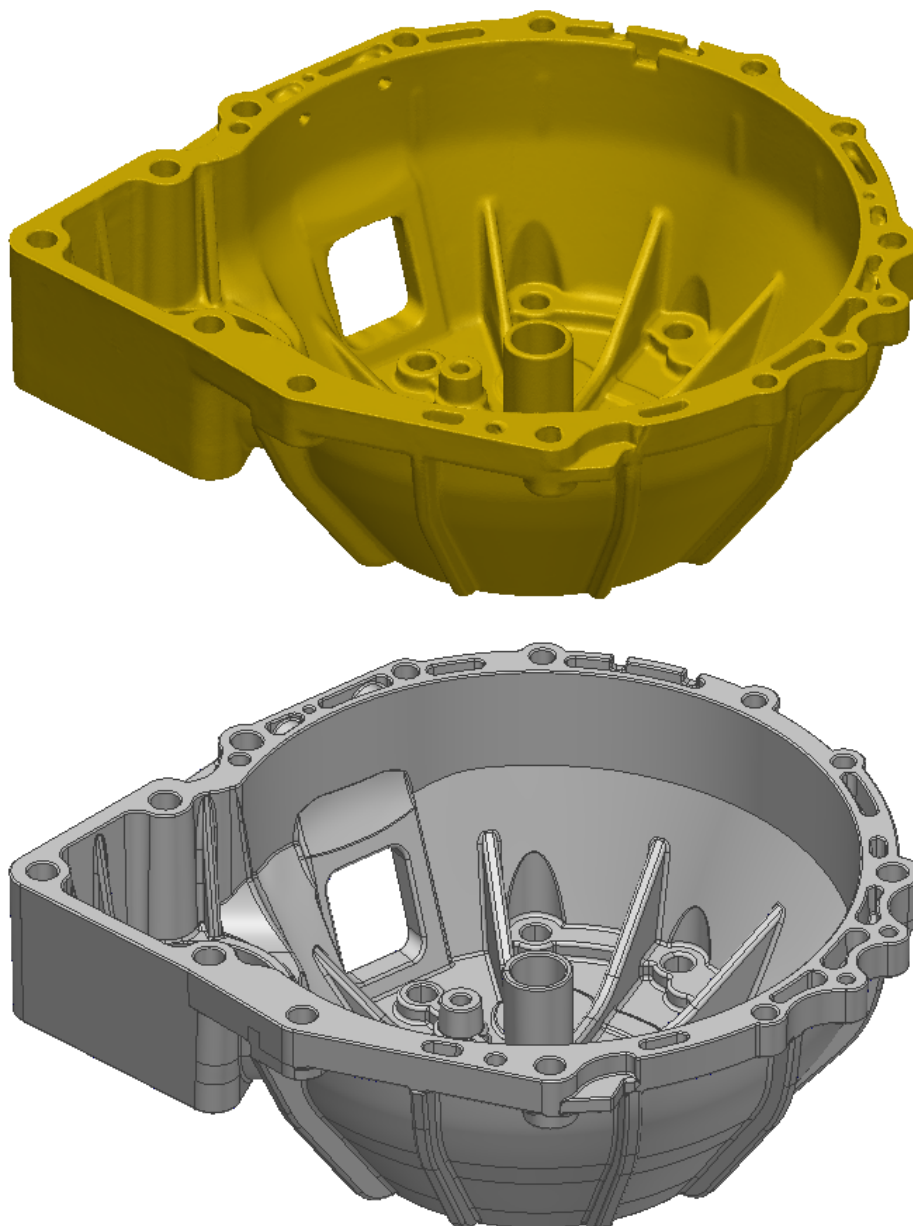


Demo 3D Laser Scan Inspection

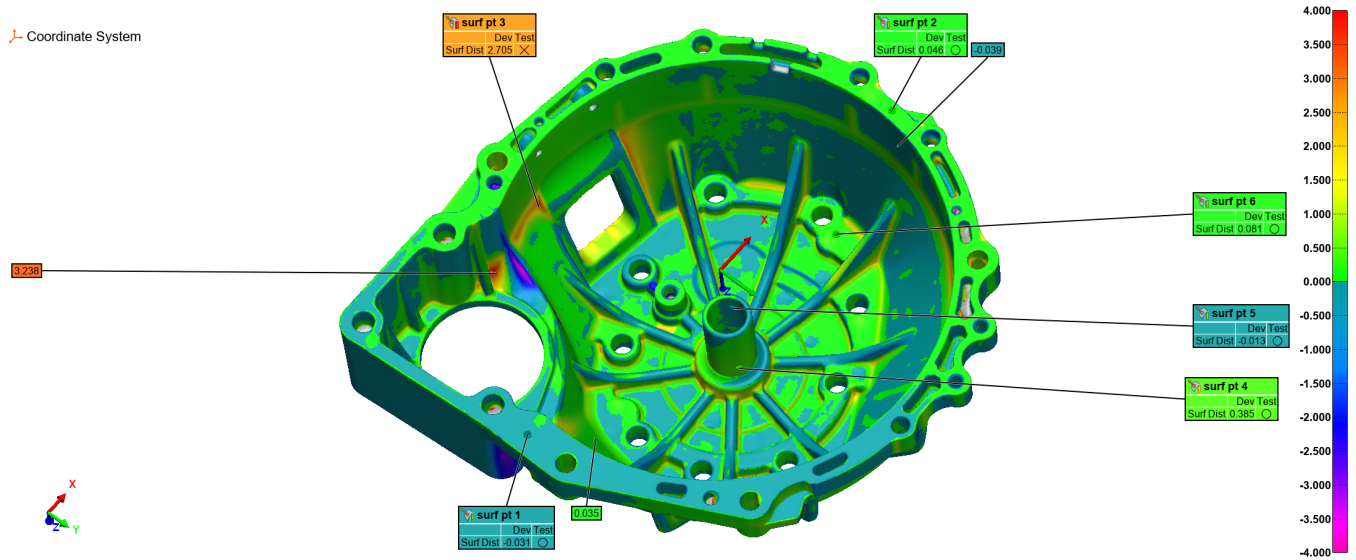
Report Author: PT SURYA KWON SUNG

Date: 4/15/2026



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Part Name: Demo Clutch Housing
Report #: Demo
Version #: 1.0
Revision #: 1.0
Device: Handheld 3D Laser Scanner



Demo 3D CAD vs. 3D Laser Scan Data Color Map & Comparison Points

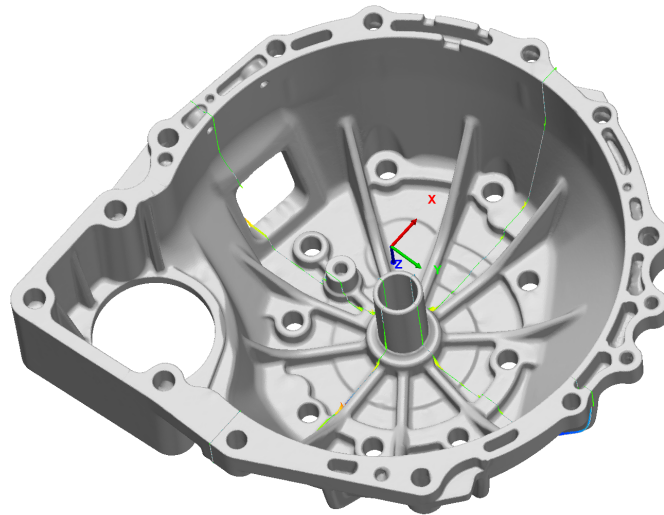
Units: Millimeters
 Coordinate Systems: Coordinate System

Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
surf pt 1	Surface Distance		-0.031	±0.500	-0.031	Pass	
surf pt 2	Surface Distance		0.046	±0.500	0.046	Pass	
surf pt 3	Surface Distance		2.705	±0.500	2.705	Fail	2.205
surf pt 4	Surface Distance		0.385	±0.500	0.385	Pass	
surf pt 5	Surface Distance		-0.013	±0.500	-0.013	Pass	
surf pt 6	Surface Distance		0.081	±0.500	0.081	Pass	

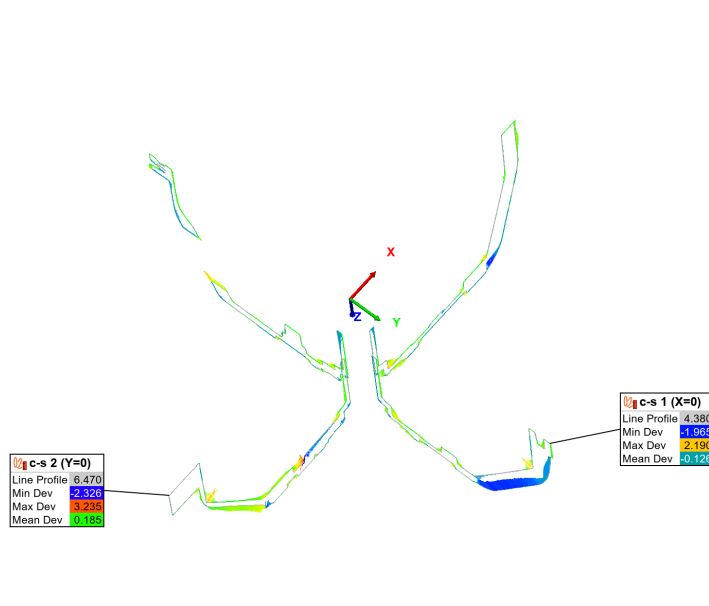
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Part Name: Demo Clutch Housing
 Part Number: -
 Piece: -

Coordinate System

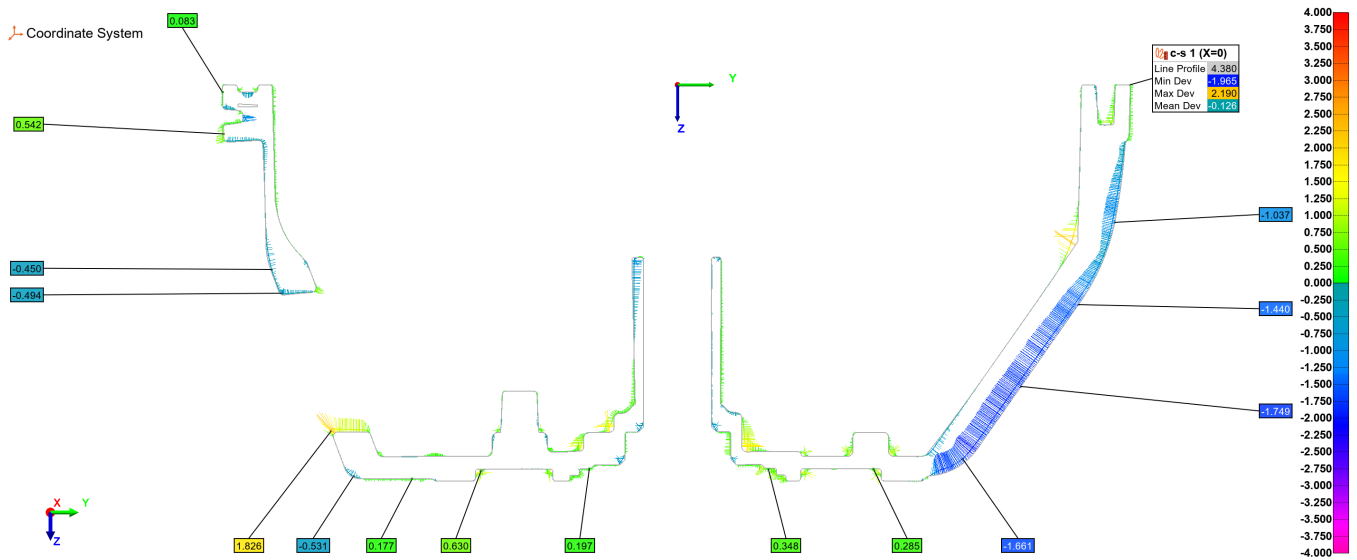


Coordinate System



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 Part Number: -
 Piece: -



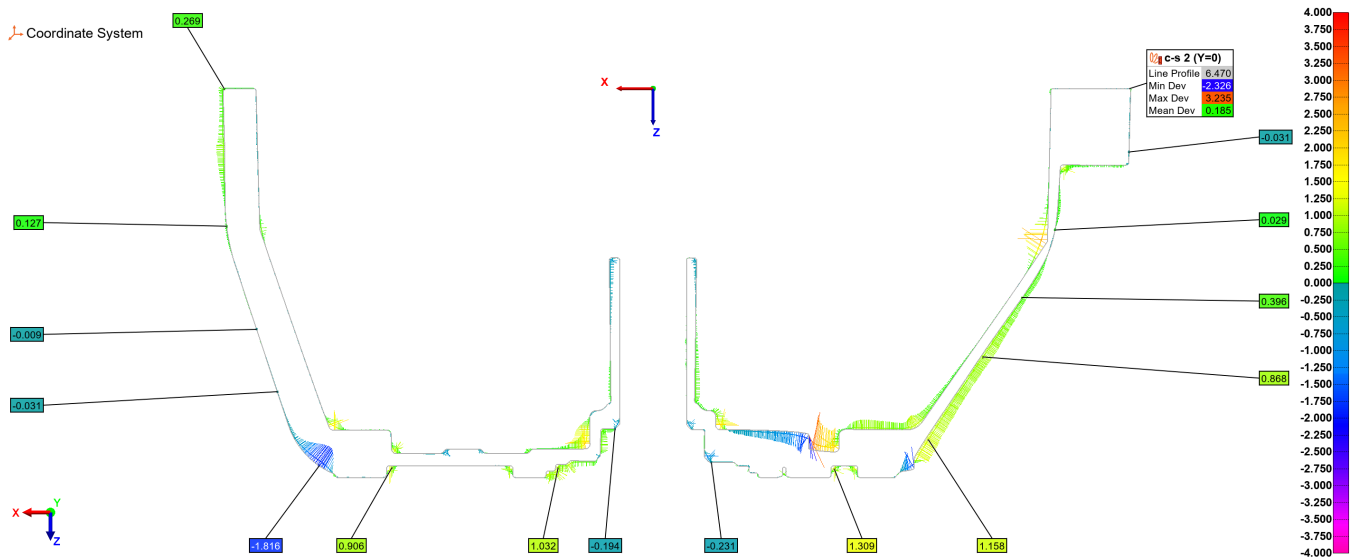
Demo Cross-Section Table X=0

Units: Millimeters
 Coordinate Systems: Coordinate System

Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
c-s 1 (X=0)	Line Profile		4.380	±1.000	4.380	Fail	3.380
	Min Deviation		-1.965	±1.000	-1.965	Fail	-0.965
	Max Deviation		2.190	±1.000	2.190	Fail	1.190
	Mean Deviation		-0.126	±1.000	-0.126	Pass	

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 Part Number: -
 Piece: -



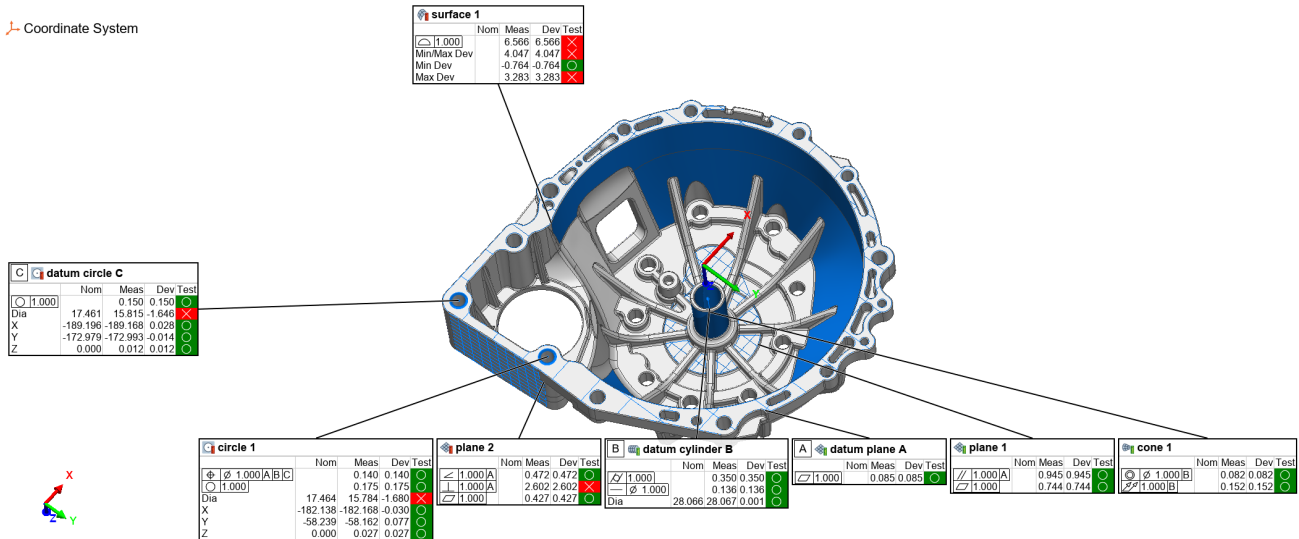
Demo Cross-Section Table Y=0

Units: Millimeters
 Coordinate Systems: Coordinate System

Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
c-s 2 (Y=0)	Line Profile		6.470	±1.000	6.470	Fail	5.470
	Min Deviation		-2.326	±1.000	-2.326	Fail	-1.326
	Max Deviation		3.235	±1.000	3.235	Fail	2.235
	Mean Deviation		0.185	±1.000	0.185	Pass	

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Part Name: Demo Clutch Housing
 Part Number: -
 Piece: -



Demo Geometric Dimensioning and Tolerancing (GD&T)

Length Units

Millimeters

Coordinate Systems

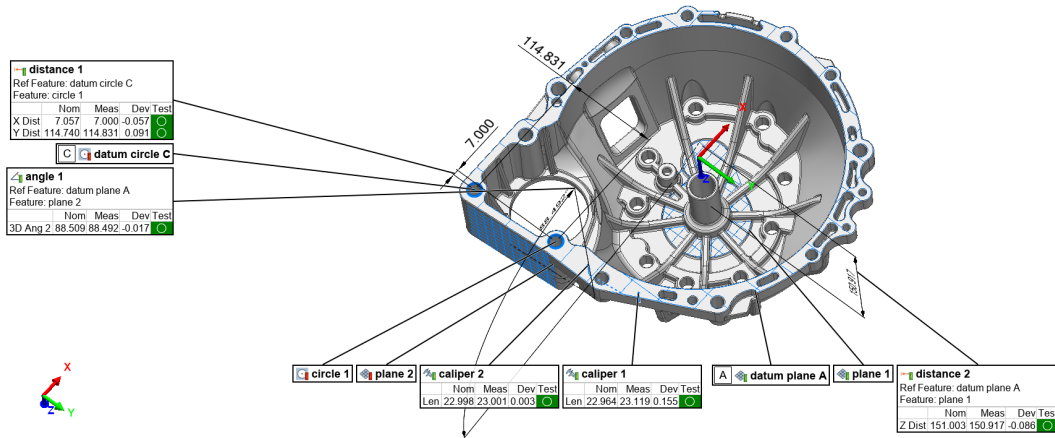
Coordinate System

Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
datum plane A	1.000		0.085	1.000	0.085	Pass	
plane 1	1.000 A		0.945	1.000	0.945	Pass	
	1.000		0.744	1.000	0.744	Pass	
plane 2	1.000 A		0.472	1.000	0.472	Pass	
	1.000 A		2.602	1.000	2.602	Fail	1.602
	1.000		0.427	1.000	0.427	Pass	
datum cylinder B	1.000		0.350	1.000	0.350	Pass	
	∅ 1.000		0.136	1.000	0.136	Pass	
	Diameter	28.066	28.067	±1.000	0.001	Pass	
cone 1	∅ 1.000 B		0.082	1.000	0.082	Pass	
	1.000 B		0.152	1.000	0.152	Pass	
datum circle C	1.000		0.150	1.000	0.150	Pass	
	Diameter	17.461	15.815	±1.000	-1.646	Fail	-0.646
	X	-189.196	-189.168	±1.000	0.028	Pass	
	Y	-172.979	-172.993	±1.000	-0.014	Pass	
	Z	0.000	0.012	±1.000	0.012	Pass	
circle 1	∅ 1.000 A B C		0.140	1.000	0.140	Pass	
	1.000		0.175	1.000	0.175	Pass	
	Diameter	17.464	15.784	±1.000	-1.680	Fail	-0.680
	X	-182.138	-182.168	±1.000	-0.030	Pass	
	Y	-58.239	-58.162	±1.000	0.077	Pass	
	Z	0.000	0.027	±1.000	0.027	Pass	
surface 1	1.000		6.566	1.000	6.566	Fail	5.566
	Min/Max Deviation		4.047	±1.000	4.047	Fail	3.047
	Min Deviation		-0.764	±1.000	-0.764	Pass	
	Max Deviation		3.283	±1.000	3.283	Fail	2.283

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Part Name: Demo Clutch Housing
Part Number: -
Piece: -

Coordinate System



Demo Measurement Table

Length Units: Millimeters
 Coordinate Systems: Coordinate System

Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
angle 1	3D Angle 2	88.509	88.492	±1.000	-0.017	Pass	
distance 1	X Distance	7.057	7.000	±1.000	-0.057	Pass	
	Y Distance	114.740	114.831	±1.000	0.091	Pass	
distance 2	Z Distance	151.003	150.917	±1.000	-0.086	Pass	

Demo Caliper Table

Units: Millimeters
 Coordinate Systems: Coordinate System

Name	Control	Nom	Meas	Tol	Dev	Test	Out Tol
caliper 1	Length	22.964	23.119	±1.000	0.155	Pass	
caliper 2	Length	22.998	23.001	±1.000	0.003	Pass	

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 Piece: -