Tolerance Stack-up Report: Sample Radial Stack
Revision: A, Author: Samuel Lehmann, Date: 2022-04-17
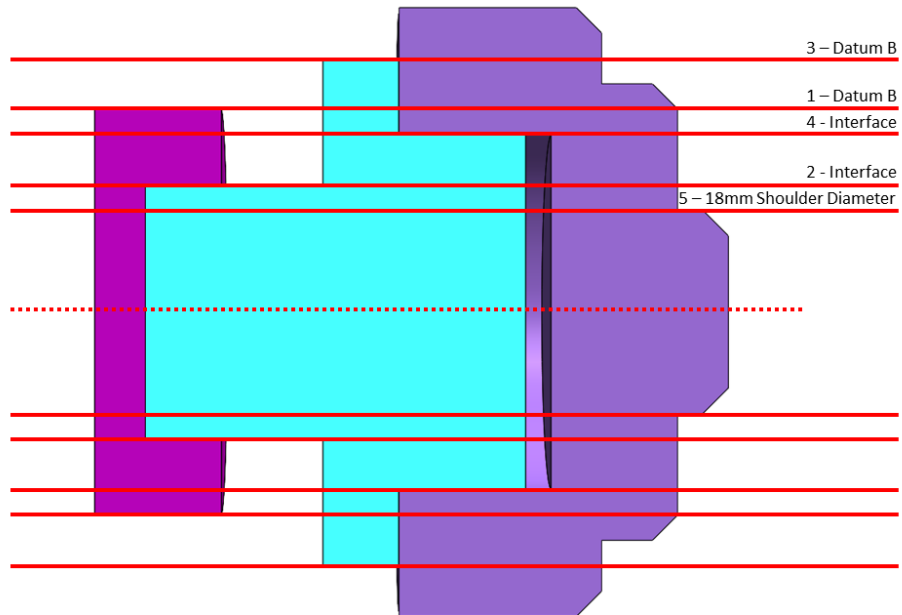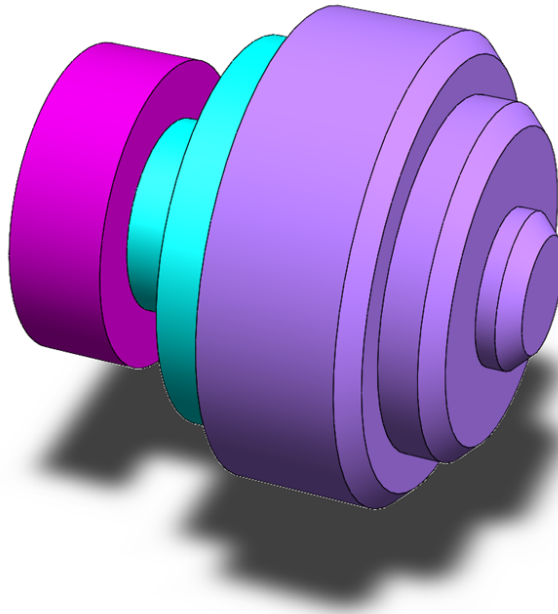
Overall Parameters
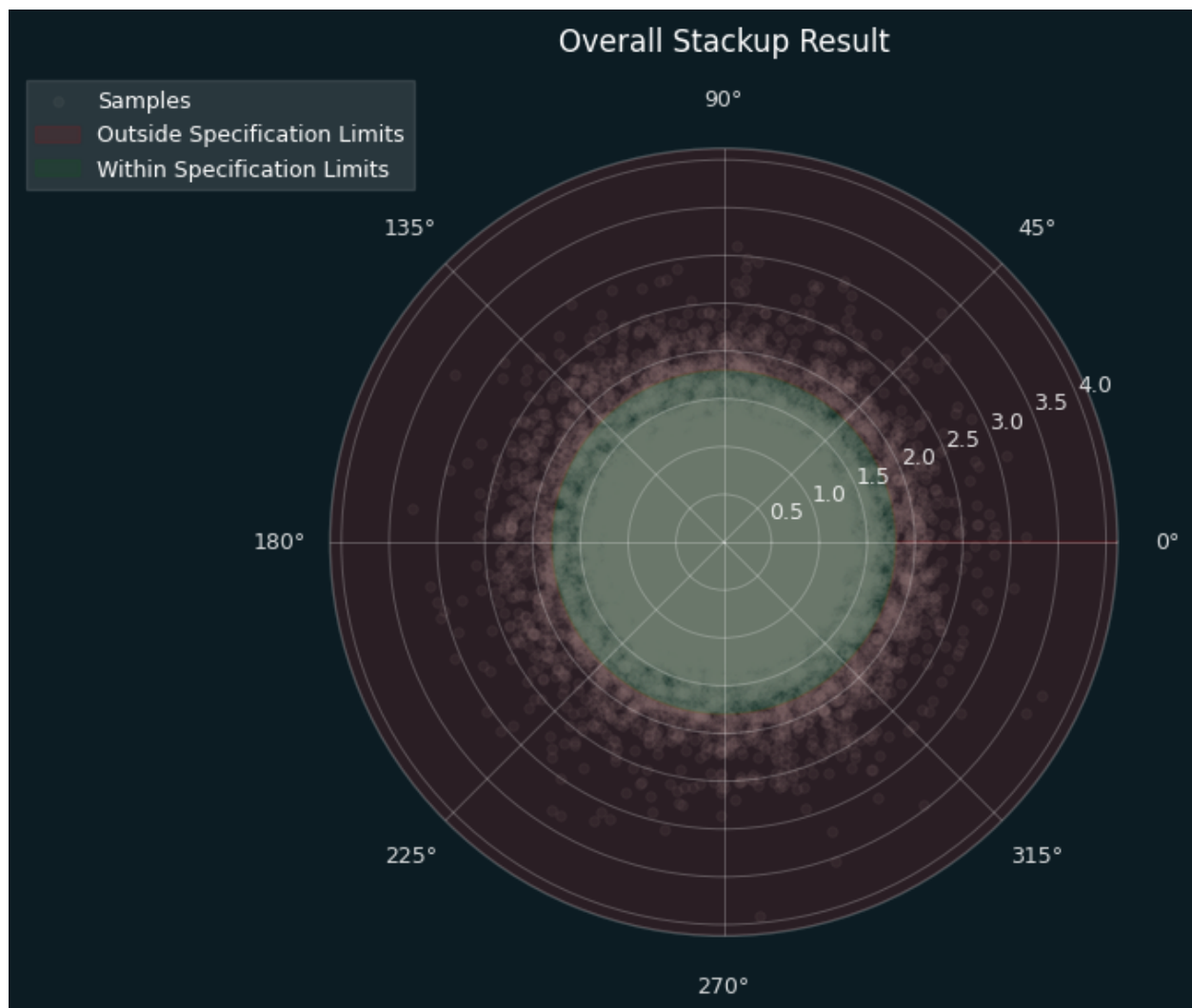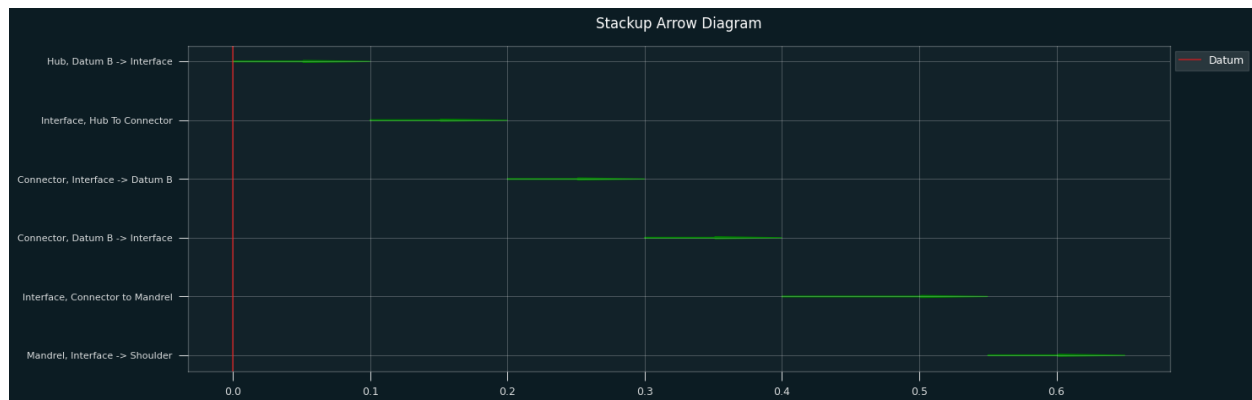
Stackup Type	Lower Specification Limit	Upper Specification Limit
Radial Stackup	-	1.8

Overall Stackup Results			
Mean:	0.85	Median:	0.77
Minimum:	0.01	Maximum:	3.92
Standard Deviation:	0.48	CPK:	0.59
Number of Samples:	50000	Absolute Limits:	(0.0, 1.8,)
Percent Below Limit:	0.0%	Percent Above Limit:	4.22%
Percent Within Limits:	4.22%	Percent Outside Limits:	95.78%

Part	Description	Distribution Type	Mean	Standard Deviation	Skew	Lower Limit	Upper Limit
Hub	Datum B -> Interface	Normal	0.1	0.5	-	0.0	0.0
Interface	Hub To Connector	Uniform	-	-	-	0.0	0.2
Connector	Interface -> Datum B	Normal	0.1	0.35	-	0.0	0.0
Connector	Datum B -> Interface	Normal	0.1	0.5	-	0.0	0.0
Interface	Connector to Mandrel	Uniform	-	-	-	0.1	0.2
Mandrel	Interface -> Shoulder	Normal	0.1	0.5	-	0.0	0.0

Overall Figures

3 – Datum B

1 – Datum B
4 - Interface

2 - Interface
5 – 18mm Shoulder Diameter

Report created using Mighty Tol: An open source tolerance stackup software (ADD GITHUB LINK)
Network with the developer
Or maybe even tip them a coffee

Stackup Arrow Diagram

Hub, Datum B -> Interface							Datum
Interface, Hub To Connector							
Connector, Interface -> Datum B							
Connector, Datum B -> Interface							
Interface, Connector to Mandrel							
Mandrel, Interface -> Shoulder							

0.0   0.1   0.2   0.3   0.4   0.5   0.6

Overall Stackup Result

- Samples
- Outside Specification Limits
- Within Specification Limits

90°

135°   45°

4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5

180°   0°

225°   315°

270°

Histogram Of Eccentricities, 50000 Samples

Within Specification Limits

3.4% Above Maximum

Frequency

Eccentricity

Detailed Stackup Step Information

Overview for Hub, Datum B -> Interface			
Mean:	0.35	Median:	0.26
Min:	0.0	Max:	2.37

Distribution Of Part: Hub, Datum B -> Interface
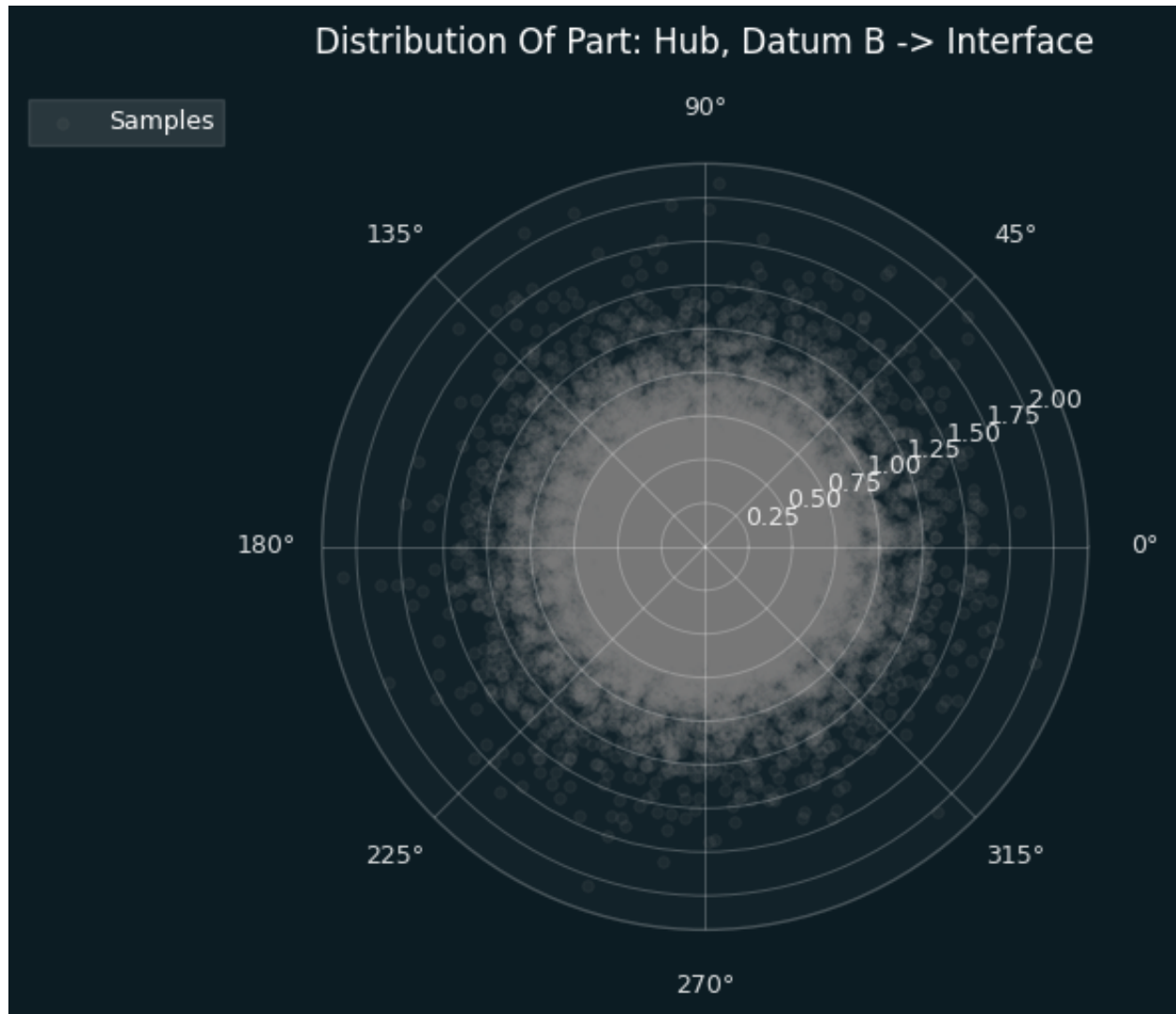
Overview for Interface, Hub To Connector			
Mean:	0.09	Median:	0.07
Min:	0.0	Max:	0.28

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Distribution Of Part: Interface, Hub To Connector
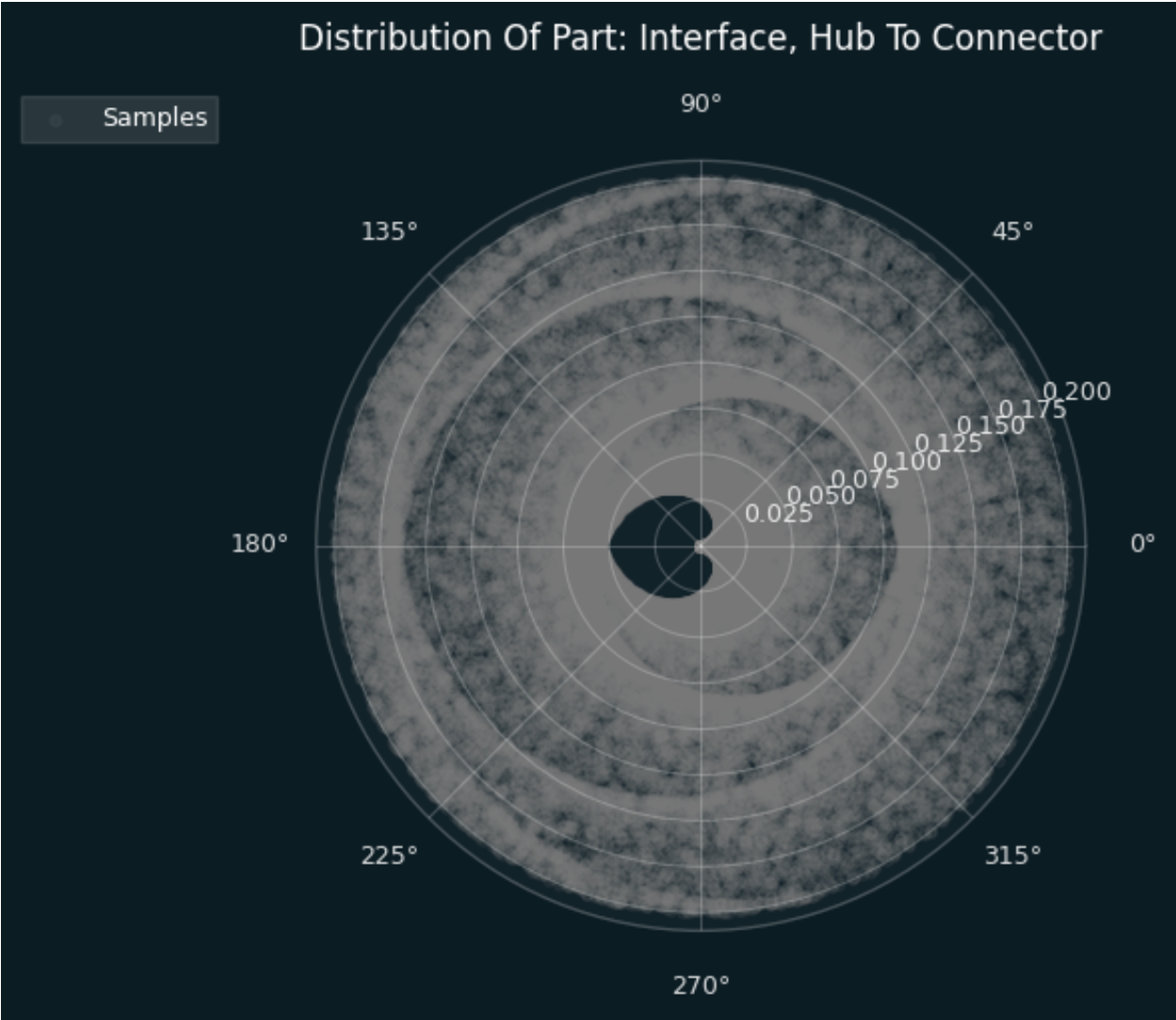
Overview for Connector, Interface -> Datum B			
Mean:	0.26	Median:	0.18
Min:	0.0	Max:	1.57

Distribution Of Part: Connector, Interface -> Datum B
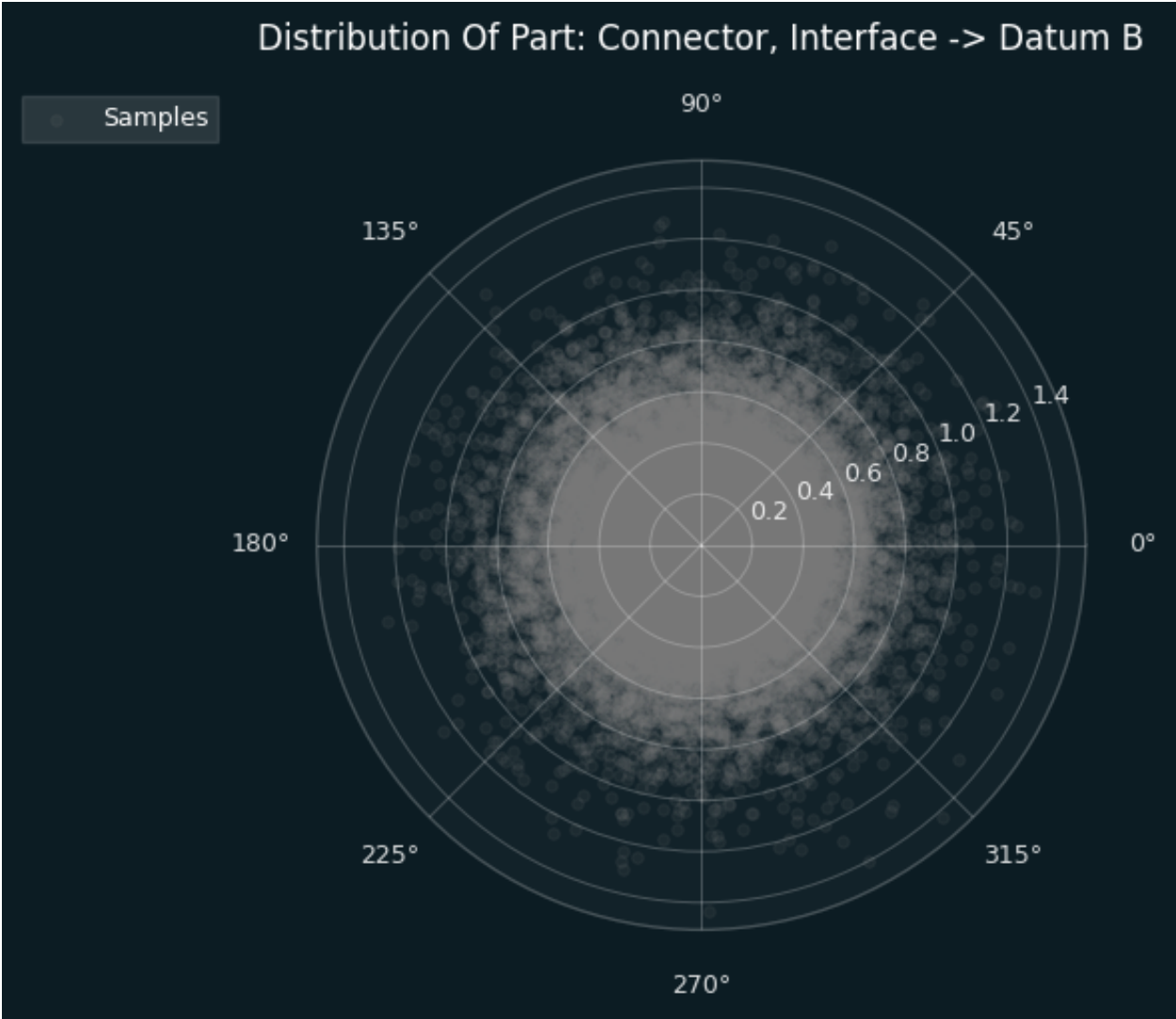
Overview for Connector, Datum B -> Interface			
Mean:	0.35	Median:	0.25
Min:	0.0	Max:	2.35

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Distribution Of Part: Connector, Datum B -> Interface
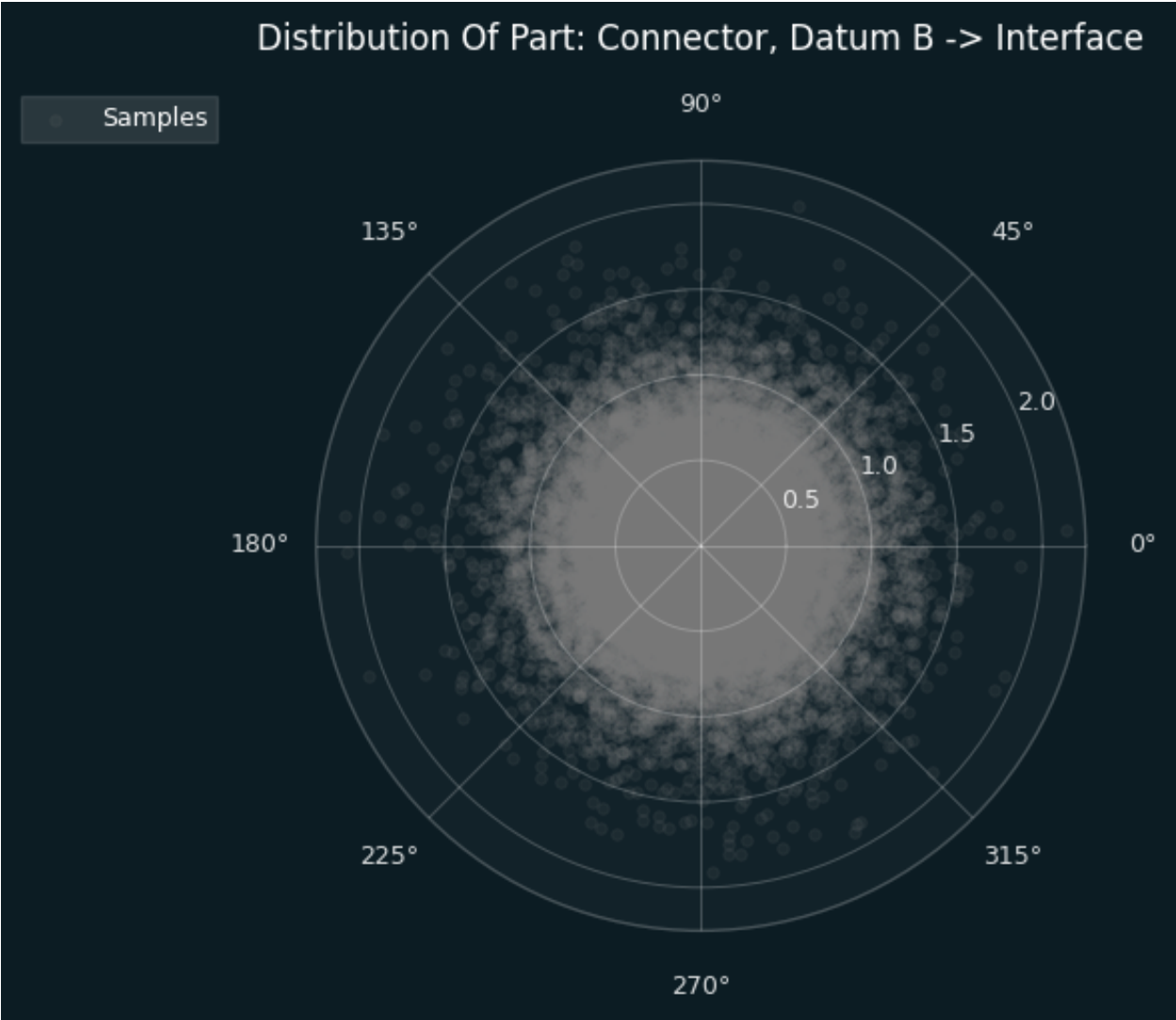
Overview for Interface, Connector to Mandrel			
Mean:	0.13	Median:	0.14
Min:	0.0	Max:	0.28

Distribution Of Part: Interface, Connector to Mandrel
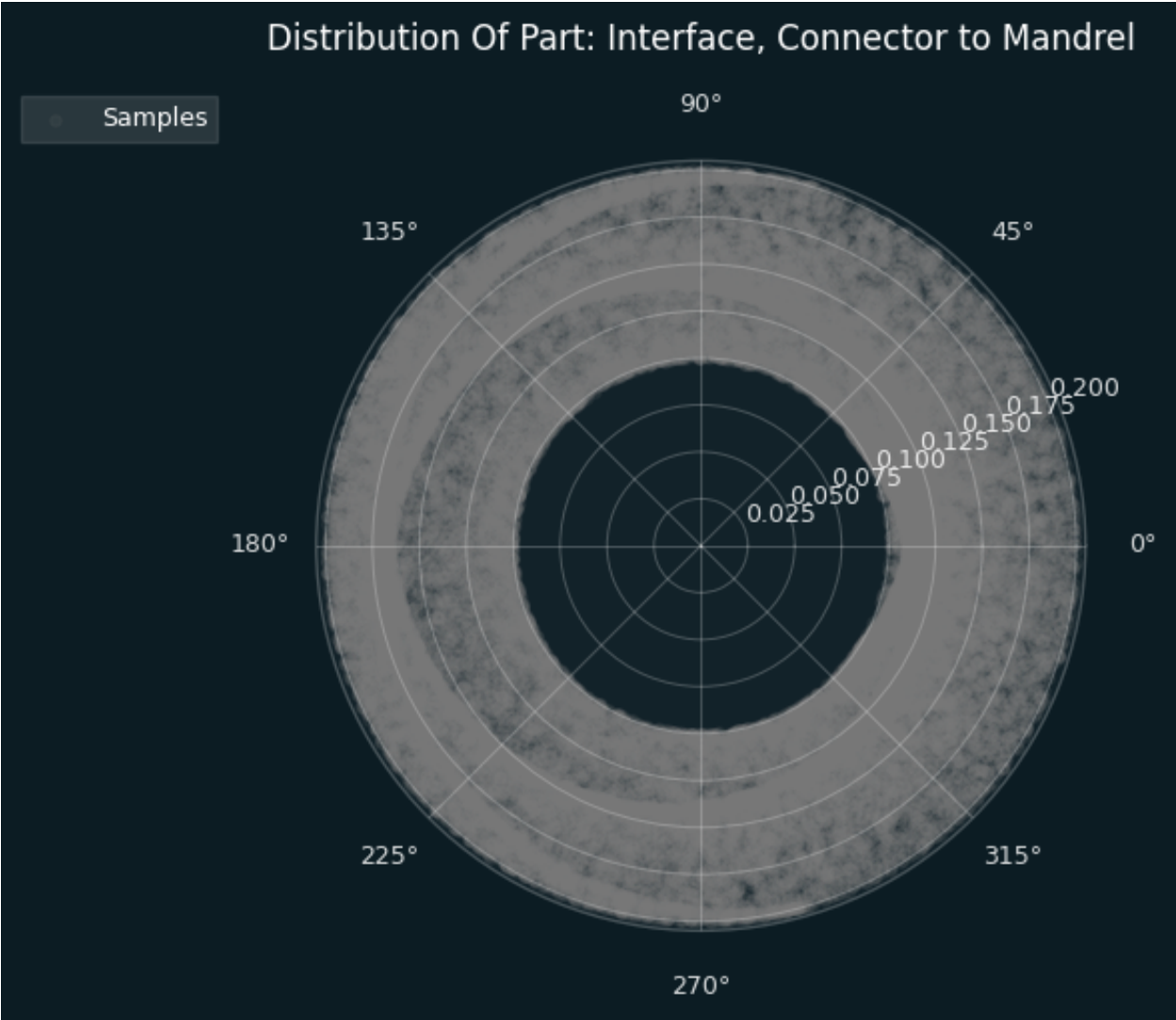
Overview for Mandrel, Interface -> Shoulder			
Mean:	0.35	Median:	0.25
Min:	0.0	Max:	2.13

Distribution Of Part: Mandrel, Interface -> Shoulder