Deliverable IV: Charts

Team G.R.O.S.S

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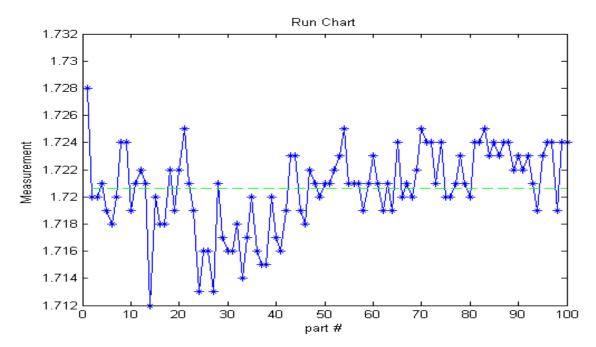
8 May 2015

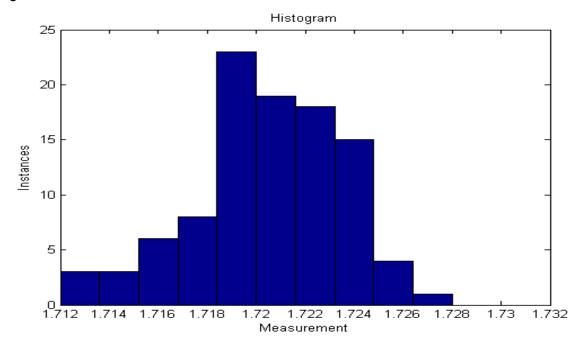
There are four parts in our Yo-Yo. The charts for each part are listed below. We chose to sample at n=5 and had a Cp of 0 .707

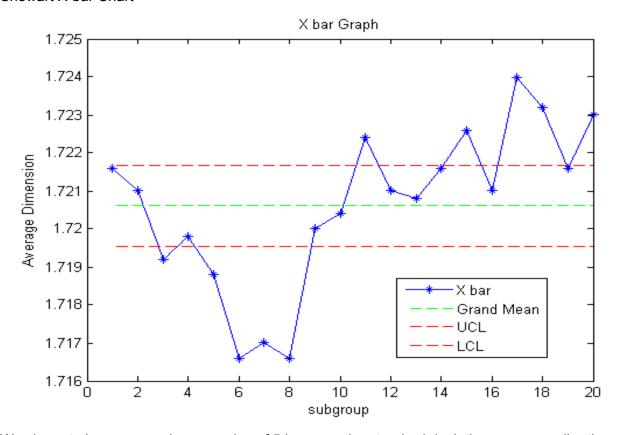
1. Thermoform Cover

The critical dimension for the Thermoform piece was its diameter.

Run Chart





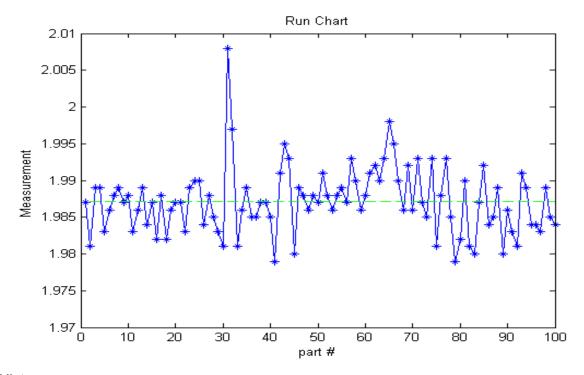


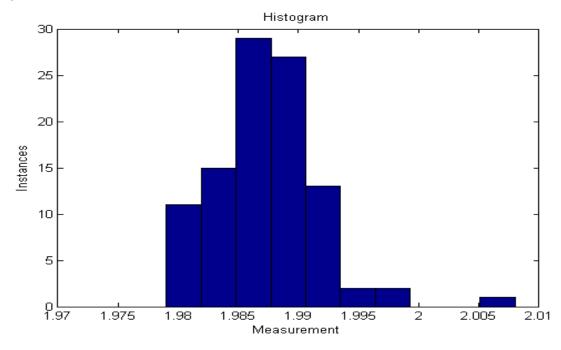
We chose to have a sample group size of 5 because the standard deviations were smaller the samples showed less variation from the mean.

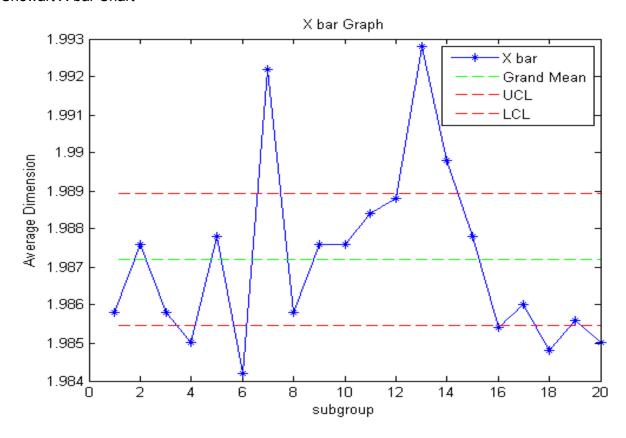
2. Black Retaining Ring

The critical dimension for the Retaining Ring was its inner diameter (ID).

Run Chart





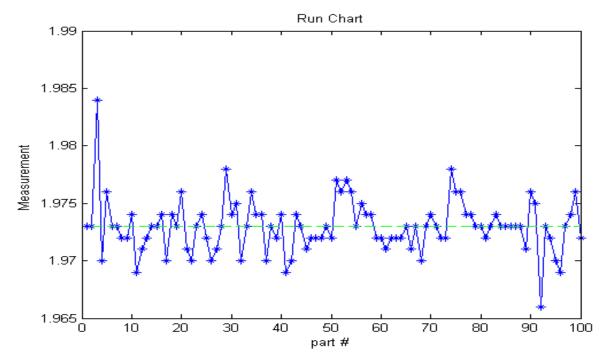


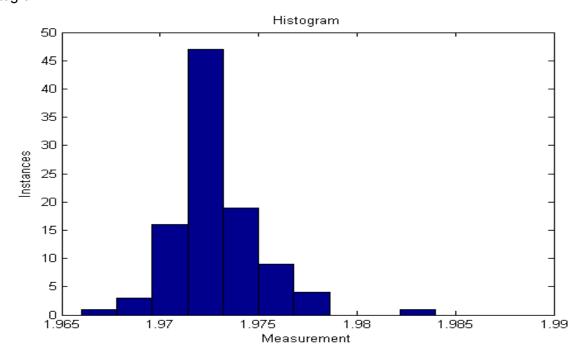
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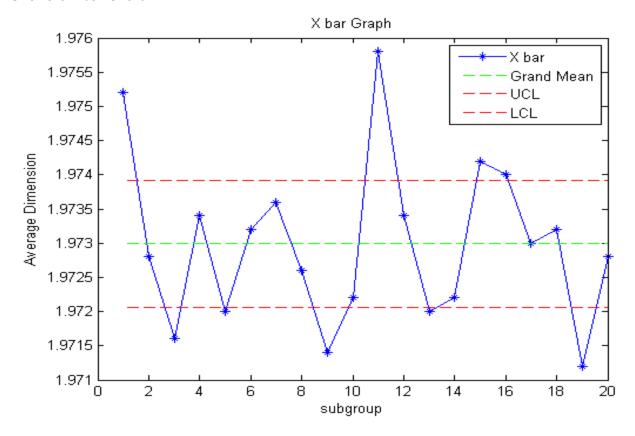
3. Orange Body

The critical dimension for the Body of the Yo-Yo was its inner diameter (ID).

Run Chart





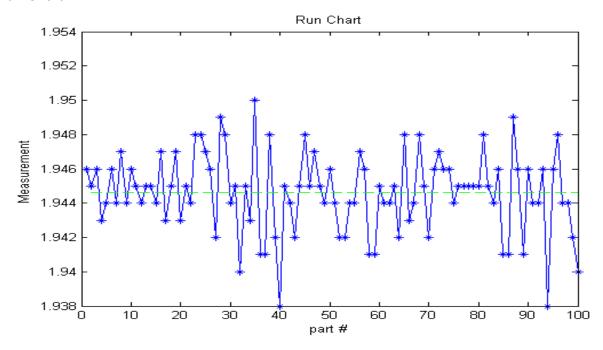


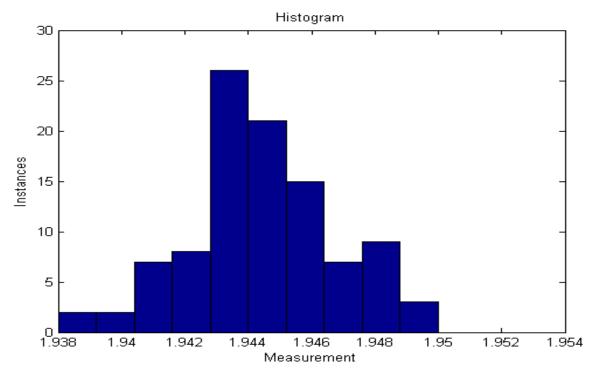
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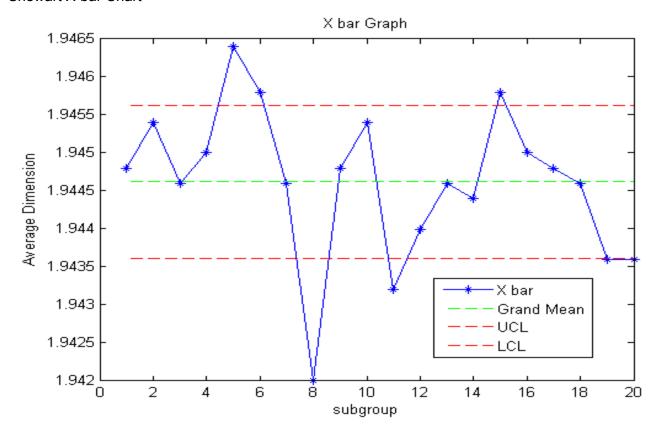
4. Lasercut Disk

The critical dimension for the laser cut disk was its diameter.

Run Chart







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Process Capability

n =5

Cp = .707

String Gap Histogram

