

Solving critical issues for the measurement of high specification aircraft hydraulic pipes

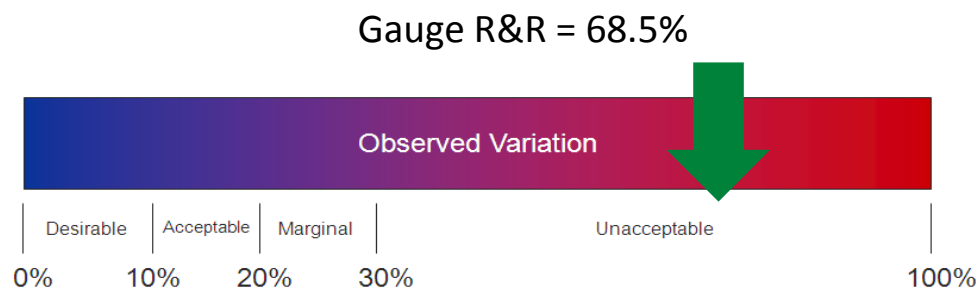
1 - Business Opportunity

Customer and operator concerns existed relating to the repeatability of a measuring system used to inspect hydraulic pipes.

Uncertainty in the capability of the measurement system and operator method

2 - Cause of the Problem

The measurement system was not capable of measuring the product in a repeatable and reproducible manner.



The measurement process was a significant part of the variation

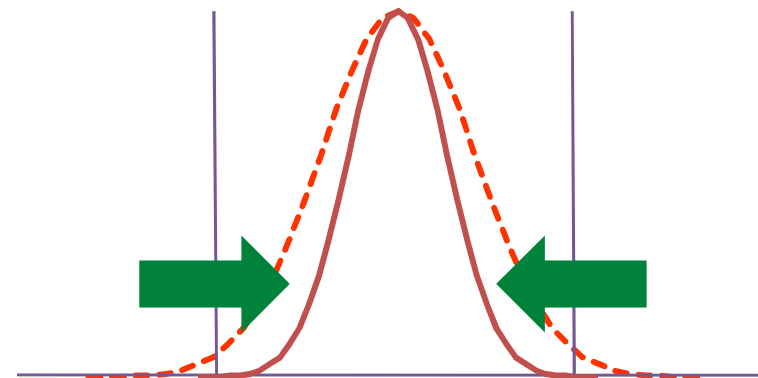
3 - Business Solution

Using Six Sigma, the measurement system was improved and simplified with changes made to the equipment. Simple statistical control methods were also introduced and a training programme was created.

Variation Seen by the customer was reduced

4 - Results

Ultimately the quality the customer sees has improved as a result of improved process capability. Scrap rate have also decreased.



Process Capability (Cpk) Improved from 1.03 to 1.68