

Abstract Details

Title: Calculation of Process Capability of an Automotive Component after Implementation of SPC Technique

Authors: Nikhil Kamra and Prashant Tripathi

Abstract: In this paper, an attempt has been made to calculate process capability (C_p) after implementation of SPC technique in the industry that is offering its customer the widest and latest range of sealing solutions for various applications in automotive industry. Further the numbers of rejections are controlled in the component assembly. The power of SPC lies in the ability to examine a process and sources of variation in that process, using tools that give weightage to objective analysis over subjective opinion and that allow the strength of each source to be determined numerically. The control chart for variables i.e; \bar{X} Chart and R Chart is implemented in industry.

Keywords: Control Charts, Process Capability, Process capability index, casting defects.