

Industrial Research Project Title	Productivity Improvement by Increasing Unit per Hour of Voice Coil Motor
Industrial Research Project Credits	6
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Abstract

The purpose of this study is aimed to improve Voice Coil Motor's Unit Per Hour in the final cleaning process. This research was conducted via Hornet Model, which has cleaning rate averagely 50 work pieces per hour. The cleaning process will be done under 6-times magnifying telescope in the classed 100 cleanroom. It was found that low productivity (Unit Per Hour) has been mainly caused from the fall of particles on the work pieces. Such particles may probably occur from the operation and wear of the machines, equipments and tools. This leads to a considerable length of time for the operator to clean up. The washing process is divided in to 2 steps, the washing prior to taking work pieces into the production line and after Bond Strength Test or before magnetization. In order to increase the speed of the cleaning process, a second wash was moved to before the Final Cleaning process. By this re-process, the washer can clean the particles procedure during production process rapidly. To obtain the best conditions washing, the technique of Design of Experiment was used to set and final optimum conditions of the washer, cleaning to get optimum conditions of work piece washing. In addition the remedy, the metallic dust problem occurred from both scratching between basket and roller, while feeding the work pieces into the washer, and between basket and basket-lifting hook, while changing the washing pond, is also addressed.