**ABSTRACT**

The study focused on maintenance of CNC punch machine head (RevoTool). After a reminder of the CORRECTIVE MAINTENANCE diagnostic methods, a functional analysis of the system was made through a Troubleshooting flowchart. This was done in order to help us choose the criticality coefficients through the Failure Modes Effects and criticality Analysis (FMECA). A Pareto study applied to the system showed that 20% of possible failures themselves include nearly 80% of the crashes of the system. Mastering these failures will increase the reliability of the entire industry chain productivity.

**Key-words:** maintenance techniques, breakdown, corrective, managing project resources, scheduling, FMECA, availability, industrial analysis, PARETO, CNC punch machine, sheet metal