

## UPON THE SPARE PARTS STOCKS UTILIZATION IN TECHOLOGICAL EQUIPMENTS PREDICTIVE MAINTENANCE

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**Abstract:** The paper objective is to establish a strategy to create spare parts stocks necessary for the technological equipment predictive maintenance activities. The principal purpose is to reduce the period necessary for these activities and in consequence to increase their life cycle time. Also, one attends to determine the quantity of spare parts that is every time made, the maximum stock level, the period of time when exist absence in stock, as well as, the maximum stock quantity missing. These are necessary because the gradually provision costs, when the absence of spare parts in stock may be accepted, constitute the input elements, outputs consisting in the minimization of the interest factors. *Key words:* maintenance, stocks, spare parts, costs, determinist model.