



Recommendations for Preventive Maintenance of Metal Forming and Fabricating Machines

Failure to perform proper maintenance may cause your machine to unexpectedly stop and hinder your production.

Periodic maintenance will ensure safe performance of machines for extended periods of time and minimize any occurrence of failure.

Sudden and Unpredictable Accidents

Abnormal Phenomena

Stop Position Slippage

Sudden Failure

Let's enjoy high returns from the maximum performance and stable operation of your machine.

Principles of Preventive Maintenance

Electrical Parts

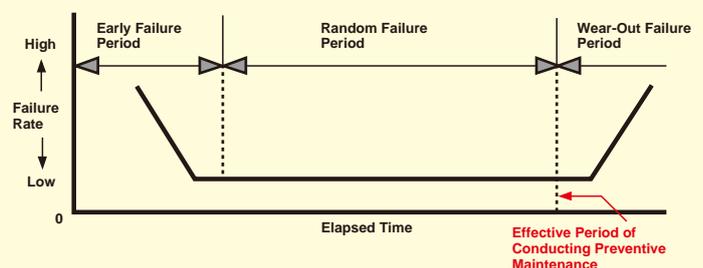
Be sure to replace electrical parts such as relays, switches, motors, electromagnetic valves and emergency stop buttons with only those parts designated by the manufacturer.

Mechanical Parts

Be sure to replace mechanical parts such as clutch brakes, couplings for encoders, O-rings, V-belts and lubricating oils with only those parts designated by the manufacturer.

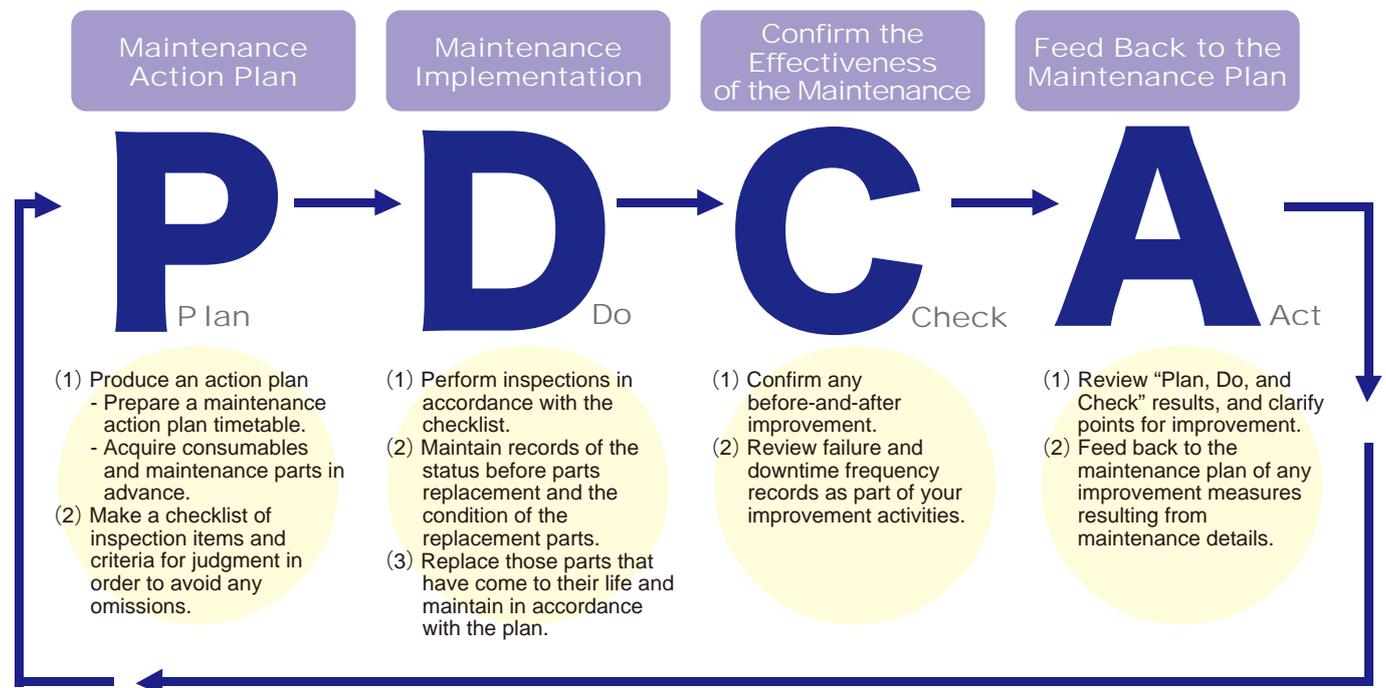
Are you familiar with "The Bathtub Curve" as a rule-of-thumb to estimate the service life of your machine?

- Perform the statutory "Pre-Operation Inspection" to detect any abnormalities and take early countermeasures as required.
- Every part has a service life. Be sure to perform daily inspections and maintenance in order to lengthen the effective preventive maintenance period.
- It is important to replace parts before the expiration of their "Recommended Replacement Interval" which is provided by the manufacturer as a rough estimate of the service life of their parts.



Ensuring preventive maintenance is a cornerstone of stable business management.

It is essential to perform sufficient inspections and maintenance and to monitor the performance of machines so that the machines may perform at their maximum capacity and maintain high utilization rates.



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