

SEE-Tech Solutions Pvt. Ltd.

Solution Providers for Energy Conservation & Plant Safety Improvement

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Area: Forging

Topic: Comparison between the compressed air and hydraulic forging machines in terms of Capacity that both can handle, Operating and maintenance cost of both techniques and Specific Energy Consumption

Problem/Issue:

To find out a substitute for the existing high energy consuming pneumatic forging hammers systems; hydraulic systems are less energy consuming as compared to compressed air based forging hammers. However suitability/limitations of hydraulic systems need to be ascertained for forging applications.

Need:

To minimize energy cost in compressed air based forging machines.

Expected Outcome:

1. Find out a commercially available hydraulic system for large scale forging operations and compare energy consumption (in terms of KWh/cycle) with pneumatic systems
2. If not, then design hydraulic system for forging operations and compare energy consumption (in terms of KWh/cycle) with pneumatic systems