Forging with a handhammer

Some ideas how it could work

Ideas on:

- Weight and length
- Control and balance
- Speed and frequency



Weight and length

Kinetic energy $E_k = \frac{1}{2} mv^2$

m = weight of hammer
v = velocity/speed of hammer

Velocity is squared



Control and balance

Light hammer \rightarrow high velocity \rightarrow loose cannon Heavy hammer \rightarrow less velocity \rightarrow steady trajectory

Handle length increases \rightarrow control decreases

Control and balance

Thumb on top \rightarrow bad idea



Control and balance

Mass close to handle \rightarrow stable



Speed ≠ frequency

Optimal frequency

Pendulum

Decrease length → increase frequency





Top of swing → highest potential energy & no kinetic energy Centerpoint

 \rightarrow maximal kinetic energy

Add energy on downstroke



Optimal frequency

Dancing hammer

Most effect – least effort



My wishes

Start thinking Share thoughts and ideas

- Your body is the most important tool in your toolbox -

Thank you!