DESIGN AND ANALYSIS OF FLOUR SIEVING MACHINE PROTOTYPE USING AUTODESK HAVENTOR SIMULATION

NAME OF LEADER & PROJECT MEMBERS : = SUHAIZAL HASHIM = MOHD ERFY ISMAIL = MOHD HASRIL AMIRUDDIN = MOHD ZULFADLI ROZALI = AMEIR SHALLEHHUDDIN AMRAN

• An innovation is accepted as the axis to

output and productivity growth

important strategy in the • An

transformation of advancing the SMEs

• Budget: RM 400 per unit



O3. PROBLEM STATEMENT

- Currently, the original flour sieve machine consume more energy and it operated semi-auto controlling by the operator.
- The small size of the original flour sieve machine cannot accommodate a large amount of flour in one sifting process
- Low in safety aspects during operating the original flour sieve machine

O5. ANALYSIS & RESULT

• STRESS =0.3688 KSI, -0.0436 KSI

• STRAIN =0.002196, 0 IN

• SAFETY FACTOR = 15 UL, 0 UL





02. OBJECTIVE

- Reducing the use of energy and labor
- Innovating the machine to the ideal or suitable size
- Improving the safety aspects of machine operation

04. METHODE

This method include:

- Product Base
- House Of Qualaity (HOQ)

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See	- 1
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Easy to use	- 4
interesting	- 1

O6. DISCUSSION

- machine.







HOUSE OF QUALITY (HOQ)

• Improvement was made by converting a semiautomatic system into an automatic system and the used pedal was replaced with an adjuster • The improvement was implemented by adding a measurement of the width of the flour sieve container and the frame of the flour sieve

• The provided lid of the sieve container is also an improvement of the design which is to prevent the entry of impurities onto the sifted flour



07. CONCLUSION

• The success of analysis and simulation was able to solve the problem of high labor consumption, small product size as well as problem from the safety aspect.