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RESEARCH ARTICLE

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MODIFICATION AND EVALUATION BAKOTEFF THRESHER TO TRACTOR 'PTO' OPERATION

GELGELO KIBI

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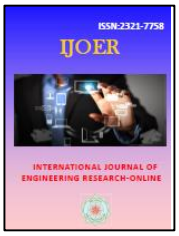
ABSTRACT



Introduction

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Material and Methods

The threshing Parts Modified

Threshing drum

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Material

Machine Description

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$$Q = q_o \, x \, L \, x \, M$$

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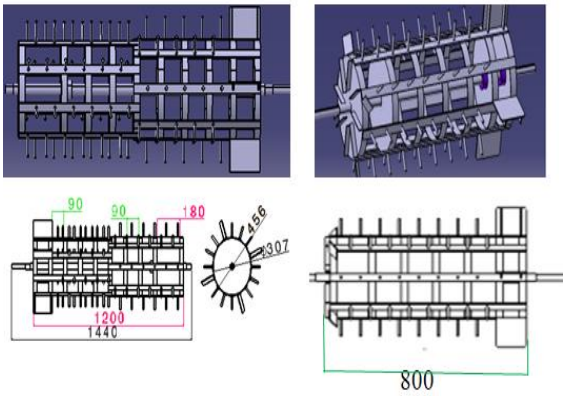
Selection of Drive and Transmission

Selection of pulley Diameter



$$N_1 X D_1 = N_2 X D_2$$

Concave

Selection of belt

Fan

$$L_p = 2C + 1.57(D_p + d_p) + \frac{(D_p - d_p)^2}{4C}$$

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Collected Data

$$\frac{(D_p + d_p)}{2} + d_p \le C \le 2(D_p + d_p)$$

Performance Evaluation of Thresher

$$= \frac{W_g}{t} \times 60 \text{min/ } hr$$
$$= \frac{W}{W_O} \times 100$$
$$= \frac{W_l}{W_l + W_g} \times 100$$

Bearing Selection

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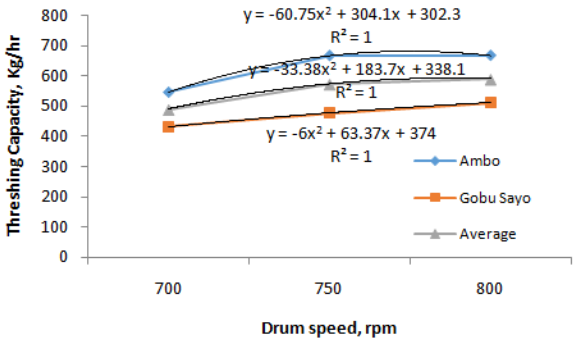
Grain-Straw Ratio

Working Principle

Statistical Analysis



Cleaning Efficiency (%)

Results and Discussion

Performance of the Prototype Machine

Threshing capacity (Kg/hr)

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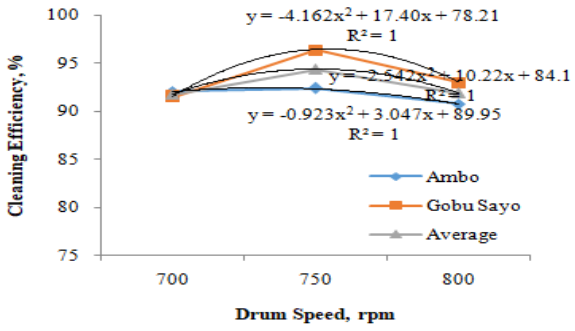

Threshing loss (%)

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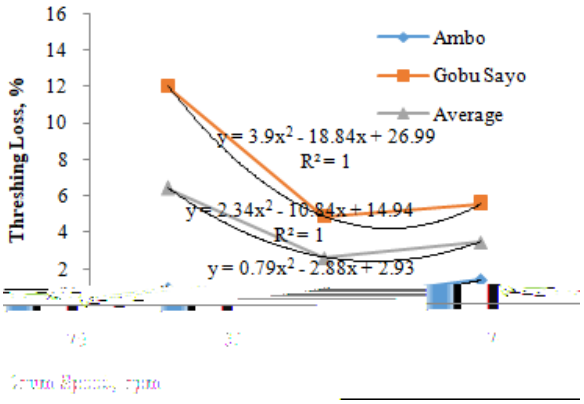

Analysis variance of the performance of the machine

Source of variation	df	F value		

Conclusion and Recommendations

Conclusion

Recommendation

Acknowledgements

Reference

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