

CHAPTER V

CONCLUSION

5.1 Conclusion

The result of the research have conclusions such as:

1. The spindle speed and feed rate influence the wear rate, where the p-value in two variation variables < 0.05 .
2. The influence wear rate of higher spindle speed (> 20000 rpm) is more significant when compared to the influence of lower spindle speed (< 20000 rpm). The spindle speed of 22000 rpm and a feed rate of 0.04 mm/flute has the highest wear rate of 0.1017 $\mu\text{m}/\text{second}$.
3. The wear at lower speed has a chipping phenomenon. The chipping phenomenon separates small pieces from the cutting tool's plane.

5.2 Suggestion

Research has many ideas to be developed for the next research, such as:

1. Developed for various types of wood used as workpieces
2. Developed to test the effect of moisture content on the wood used on the workpiece against the rate of tool wear

