In a small industry, tambourine made by simple tools. One of the best way to increase the efficiency and quality of production is using wood lathe machine to shape the tambourine’s edge.

Wood lathe machine used to make better shape by a simple way. So they need to count the power needed in this whole process. Power needed to activate the belt, pulley, cog wheel, and spindle.

Based on the calculation, it needs 1 HP and the crank about 1400 rpm to activate the turning spindle about 170 rpm. It also need the power to shape about 180,5 kgf and three machine capacity per hours.

Kata kunci: wood, cutting.