

The Effect of Using Variation of *Roller Angle Pulley* on CVT System on Performance and Fuel Consumption of Honda Beat 110 CC

Commission guide Ir. Dwi Djoko Suranto, M.T

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ABSTRACT

This study was to determine the effect of using roller angle variations pulley on performance with torque, power and fuel consumption values on motorcycles. This study uses an experimental method which is a research method used as a test of the impact caused by one treatment. Experimental method is defined as a test using the treatment of several variations that are used as comparisons and also in testing without using variations that are used as comparisons. From the results of the torque test, it can be seen that the highest torque is obtained by roller 15 gr pulley 14.5° roller 13 gr pulley of 10.92 Hp at 5000 rpm. The results of the fuel consumption test can be seen that the effective use of fuel is obtained by roller 11 gr pulley of 0.031 kg/hour at 1500 rpm, the results of the effective fuel consumption test are obtained by an roller 11 gr, pulley 14,5° at 0,057 kg/hour at 3000 rpm and the results of the effective fuel test were obtained by an roller 11 gr pulley of 0.109 kg/hour at 5000 rpm

Key Words: Power, Roller, Angle Pulley Torque