

INVESTIGATION OF MOTORCYCLE MODIFICATIONS BY POWER AND TORQUE MEASUREMENT

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ABSTRACT

Increasing, measuring and evaluating the performance of motorcycles is a technical field in which the goal is to constantly look for new challenges and solutions. Many parts are available commercially for the conversion and modification of motorcycles. These modifications include air filter and carburetor replacement, selection of optimally sized jets, cylinder head and electronics modifications. These changes individually affect the operating characteristics of the engine. In the absence of proper settings, their effects can be unfavorable. The combined effect of each modification should also be examined. The tool of our tests is a dynamometer, with which it is possible to record the power and torque characteristic curve of an internal combustion engine at full load. In our article we describe the effect of each modification and the characteristic curves obtained as a result of the measurements.

Keywords: modifications of internal combustion engines, characteristic curves of internal combustion engines, power measurement, torque measurement, dynamometer