



Agricultural Journals

Research in

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Res. Agr. Eng.

**Š. Drabant¹, M. Bolla²,
A. Žikla¹, I.**

Petranský¹, J. Ďud'ák¹

Testing device with opened hydrostatic circuit for dynamic loading of the tractor engine by power take off shaft

Res. Agr. Eng., 51 (2005): 91-98

The developed loading device with opened hydrostatic circuit for measurement of speed and dynamic characteristics of the tractor engine by power take off is presented. This loading device may also be used as a portable type for field measurement. At present for development of these loading devices controlled hydrogenerators and electro-hydraulic proportional pressure valves directed by computer may be used to adjust geometrical volume of the hydrogenerator from zero to maximum value. There is a possibility to build these devices which consist of one hydrogenerator and one by-pass valve for the maximum power of internal combustion engine 420 kW which is sufficient from the point of view of

practical need. Thus optional loading regime may be used according to the