

Proposals for cooperation

Department «Automobiles- and tractors»
NTU “KhPI”

Department «Automobiles- and tractors»

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Department specialties:

- Automobile transport
(specialization: automobiles and automobile economy)
- Engineering
(specialization: automobiles and tractors)

Research areas

- **Structural and parametric synthesis stepless HVMT agricultural tractor and combines**

Prototype HVMT synthesized, developed in NTU "KPI" and manufactured by "HTZ" to increase productivity and significantly improve the ergonomics of the tractor. Established NTU "KPI" and JSC "HTZ" original continuously variable hydrovolumetric mechanical transmission successfully tested on tractors HTZ-170/240 and is designed for engines of 125 ... 176 kW (170 ... 240 hp).



HVMT for HTZ-242K

As for as tractor HTZ-242K HVMT has a 4-speed traction technology range in forward the following motion ahead 9.6 km/h, 13.2 km/h, 22.0 km/h, 40.0 km/h and 2-speed in the reverse 13.2 km/h, 40.0 km/h, each of which continuously adjusted speed and traction of the tractor.



Cooperation areas

- effective use of structural and parametric synthesis continuously hydrovolumetric mechanical transmission in designing or upgrading of wheeled and tracked tractors, light (up to 20 tons) and heavy (60 tons) tracked vehicles, road construction machinery and etc.;
- specific design development HVMT at the level of the design documentation;
- joint experimental and field research poster HVMT, in order to improve technical and economic indices of tractor units