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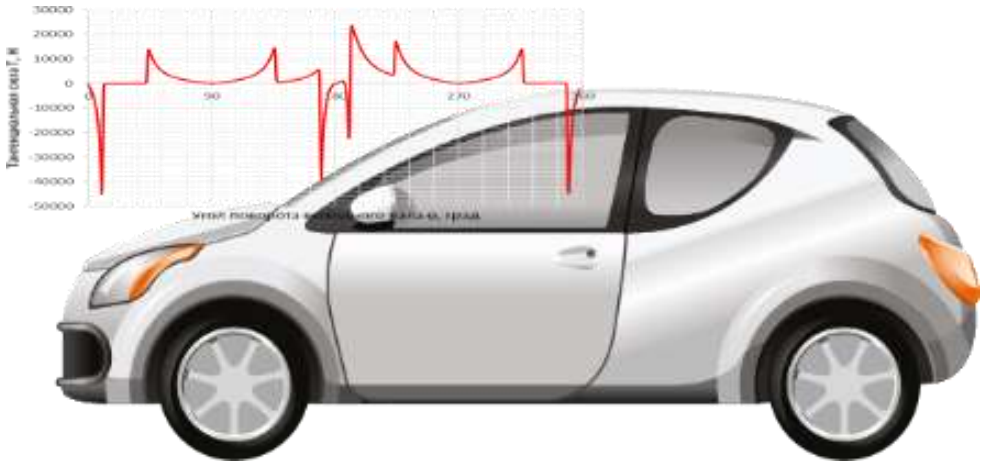
Preliminary kinematic, dynamic and load calculations performed by Inter Motor Group LLC determined the main parameters of a promising new generation four-cylinder diesel ICE for a passenger car with a power of 100 hp.



The calculation of the parameters of the ICE of the New Generation is associated with an assessment of the effectiveness of its use in operational conditions.

The purpose of the calculations is a preliminary assessment of the specific mass, overall, traction and fuel and economic indicators of the ICE of the New Generation installed on a passenger car.

The calculation results will allow us to evaluate its advantages in operating conditions, taking into account the restrictions imposed by traffic rules and road operating conditions.

ICE for a car	ICE New Generation	ICE VW 1.6TDI (CAYC)
Engine displacement, l	0.809	1.598
Rated power, h.p.	104	102
at a frequency of rotation, rpm	2200	4400
Maksim. torque, N•m	465	230
at a frequency of rotation, rpm	1000	2000
Fuel consumption, l/100 km	3.9	6.5