

Ecological Mazda in Tokyo

At the upcoming Tokyo Motor Show, Mazda will present two new engines and new automatic transmission. The new components will be characterized by improved environmental characteristics and reduced fuel consumption.

The petrol engine will be shown SKY-G with direct fuel injection and diesel engine SKY-D. The Japanese will also present an automatic gearbox SKY-Drive. New solutions will be presented in a conceptual model Kiyora. A new generation of gasoline engine SKY-G with direct injection is characterized by a significantly reduced fuel consumption and better performance. This is, inter alia, through increased thermal efficiency. Block has been designed from scratch for a reduction in mechanical friction and to obtain optimum fuel / air mixture. Direct fuel injection enables the use of different profiles of spray and achieve maximum extended stroke work. Unit Diesel SKY-D is also characterized by low fuel consumption and reduced emissions. The newly designed engine block was lowered to the level of mechanical friction encountered in petrol engines. By optimizing the pressure and temperature in the cylinders, the shape of the combustion chambers and combustion characteristics of fuel injection starts at the best stage in terms of thermal efficiency.

Mazda will present the automatic gearbox SKY-Drive. Structural changes implemented in the new gear to translate into lower fuel consumption and improve vehicle performance. Used to be a new torque converter, clutch, limited slip, locking mechanism is optimized and the mechanical friction is reduced. Mazda claims that these solutions will provide speeds of gears is similar to the gearbox with double clutch. In addition to the concept of SKY Mazda also prepared an exhibition of technologies for today, in which present a unique system of shutting the engine off when stationary and-stop, introduced with the new generation model, Mazda 3 As the technologies of the future will be presented to a Mazda Premacy Hydrogen RE Hybrid with a hydrogen engine rotation, a number of other technologies.