

Koyo[®]

ENGINEERING JOURNAL

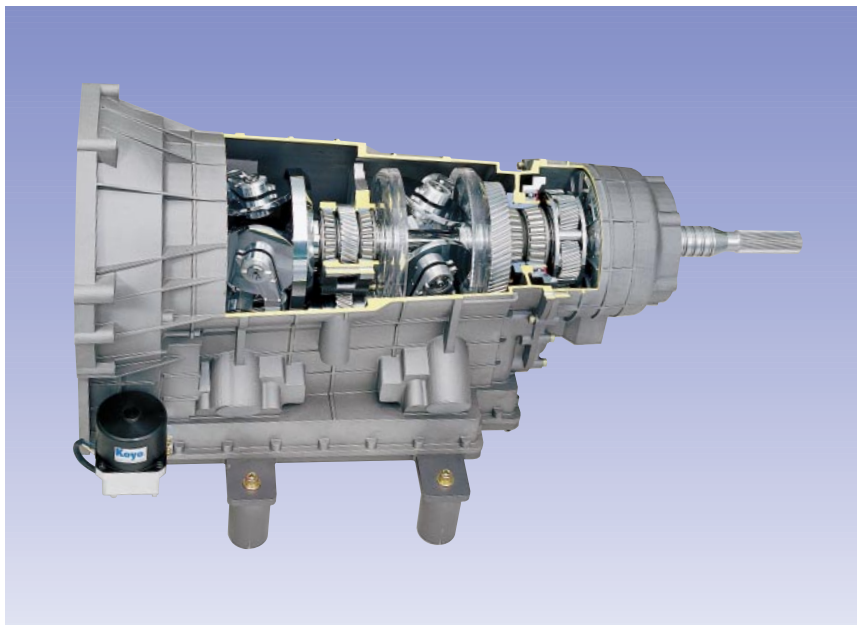
English Edition

APRIL 2002
No. 160E



VALUE & TECHNOLOGY

KOYO SEIKO CO., LTD.



Full Toroidal Infinitely Variable Transmission (IVT)

Full toroidal infinitely variable transmission under development is a new-type transmission which realizes geared neutral by adoption of torque control technology, and does not require such a launching device as a torque converter.

This enables a high over-drive ratio, and substantial fuel economy improvement compared with AT cars can be expected.

Koyo is in charge of developing a variator and rolling bearings, which are the main points of the infinitely variable transmission under the contract with Torotrak Limited in U.K.

High tribological technology including materials, precision machining and so on are used for the development.

The photo shows a series 3a transmission as a production model for North American SUV (sports utility vehicle).