



ECFD

The Externally Controlled Fan Drive (ECFD) is a fan drive that controls fan rotation speed by inputting electrical signals via electromagnets, unlike a conventional Fan Drive with a temperature-sensitive bi-metal which detects air temperature passing through the radiator.

ECFD



An ECFD is controlled by information collected by the ECU, including engine coolant temperature, engine rotation frequency, and fan rotation frequency, to calculate the desired fan speed for the engine. The ECU then provides an electrical signal to the ECFD to maintain optimal fan speed for engine cooling. This improves fuel efficiency and combustion efficiency while reducing fan noise.

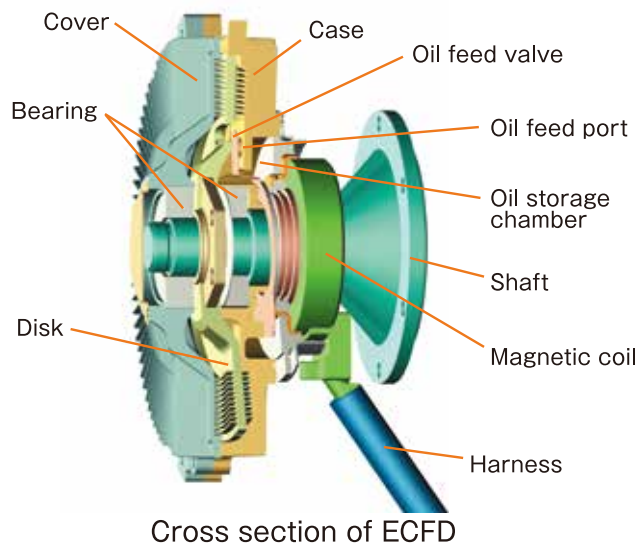
USUI offer a wide range of ECFD products, from small to large.

Summary

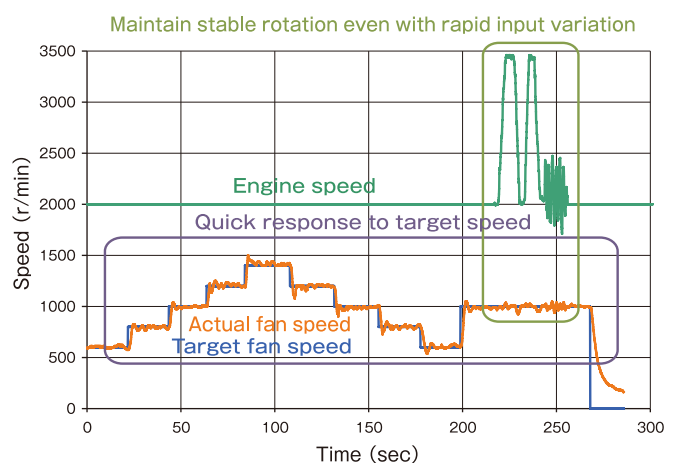
- A magnetic coil controls the opening/closing of the oil feed valve to regulate the fan speed.
- A request for engine cooling to the vehicle ECU enables deliberate control of fan speed via electrical signal.
- Electric control of the valve improves the response speed, making it better than a conventional Fan Drive with a bi-metal strip.

Features

Realization of the optimal fan speed contributes to better fuel economy and quiet cooling of vehicles.



Cross section of ECFD



Test bench data



USUI KOKUSAI SANGYO KAISHA, LTD.

www.usui.co.jp/

131-2, Nagasawa, Shimizu-cho, Sunto-gun, Shizuoka-ken, 411-8610 Japan TEL +81-(0)55-972-2111 FAX +81-(0)55-973-3159

Person in charge 150-1 Mamanoue, Izunokuni-shi, Shizuoka-ken, 410-2204 TEL +81-(0)55-948-2305 FAX +81-(0)55-948-6220

The information contained herein is intended to describe typical characteristics and performance that our products might possess, not to grant any warranty in any form. Please be aware, depending on usage purposes, usage environments and usage conditions, the generic information may not be applicable in certain cases. USUI may also modify or delete any of its product information without advance notice. For the latest or further information, please contact us.