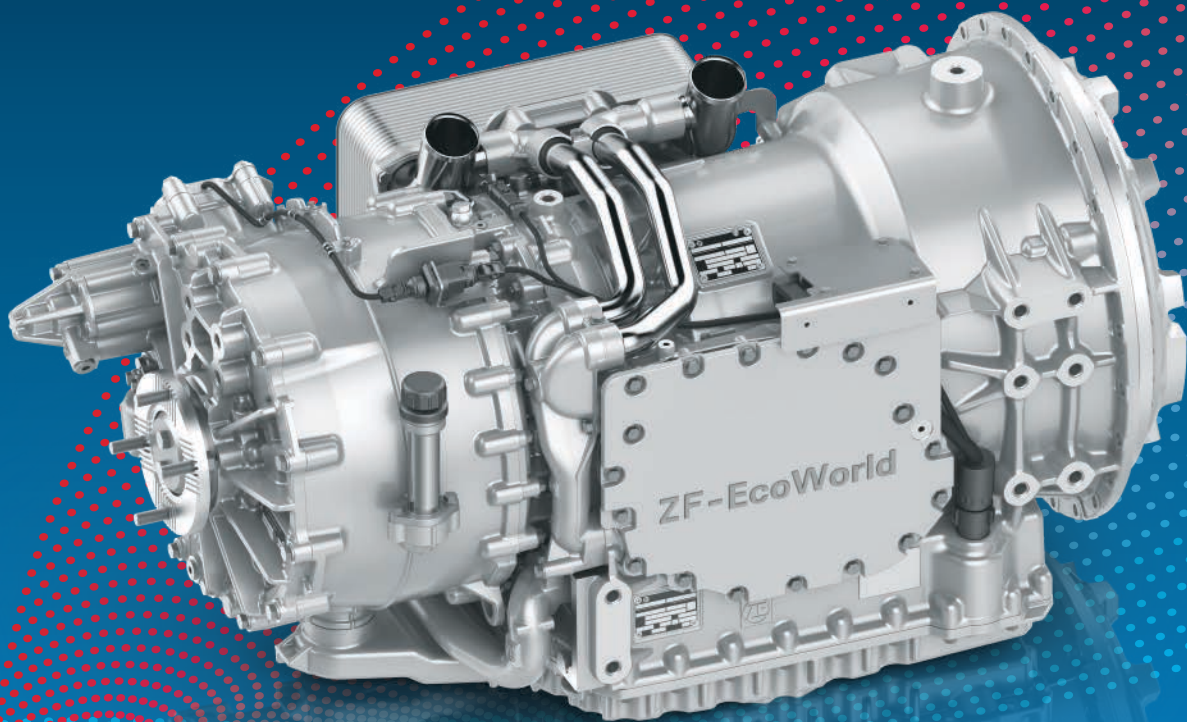




Retrofitting for increased profitability

Repowering with
ZF-EcoWorld





Repowering - up to 20 percent fuel savings possible

Considering the fact that fuel is two-thirds of the overall vehicle operating costs, oil and fuel prices challenge cost effectiveness for many operators.

Modern drive systems that contribute to saving fuel and increasing the vehicles' life cycles are becoming more and more important. The ZF repowering package is an economic solution to meet these requirements.

For existing diesel train units, in terms of technology, the outdated main transmission is replaced with a state-of-the-art, more cost-effective and economic driveline. The engine, existing bogie with its axle drives are not affected. Optimised mechanical gear ratios work to keep the engine in the best economical speed range, especially while accelerating and driving at lower train speeds. The ZF driveline also reduces waste heat significantly, improving the train cooling system capacity and at the same time generating substantially less CO₂ emissions.

Technical data

Transmission spacing	6.018
Weight (without oil)	492 kg
Driving power	600 kW
Max. speed	200 km/h

Highlights ZF EcoWorld

- Highly efficient 6 speed automatic transmission
- Powerful integrated primary retarder
- Developed for Powerpack and remoted mounted installation
- Fully compatible and inter-operable with existing DMU train-sets
- Dramatically reduced fuel consumption and CO₂ emissions

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