

VIAB

Turbo Retarder Clutch (TRC)



Power and control combined

The heavier the commercial vehicle, the higher the stress on clutch and brakes. Our solution: The VIAB wear-free integrated start-up and braking system, which efficiently combines power and control. Thanks to the VIAB, even heavy trucks can start up powerfully, maneuver with millimeter precision, and brake safely and continuously without wear. This results in considerably longer operating lives for friction clutches and service brakes, as well as greater safety and ride comfort.

Wear-free starting and braking meet power and control: Our innovative VIAB turbo retarder clutch combines all these advantages with the highest standard of comfort in a single system, offering maximum traction over the entire speed range as well as consistent performance even at maximum speed. In addition, the integrated high-performance primary retarder ensures optimum braking power even at the lowest speeds, and it even functions in reverse gear. Moreover, even extreme stresses do not affect the temperature stability – another advantage over conventional torque converters.

Key benefits of the VIAB turbo retarder clutch

- 100 % engine torque over entire speed range
- No thermal limitations during start-up
- Protects friction clutch from overload
- Controlled roll-back as USP
- Integrated high-performance primary retarder
- Retarder functions even in reverse gear
- High standard of comfort and considerable cost advantage

VIAB

Technical data



▪ Max. engine torque	3,000 Nm	▪ Engine speed	2,500 rpm
▪ Max. retarder braking torque	2,400 Nm	▪ Weight excluding oil	130 kg

Max. engine torque

3,000 Nm

Max. retarder braking torque

2,400 Nm

Engine speed

2,500 rpm