

FACT SHEET

CRUISE CONTROL



Cruise control

The cruise control helps the driver to keep a constant and fuel saving speed. The system automatically regulates the speed to keep the set speed selected by the driver.

Activation and setting of speed is done by controls placed on the left side of the steering wheel. The cruise control activation is indicated in the driver information display.

The set speed can be reached in three different ways; with the accelerator, the steering wheel switch for increasing/decreasing speed, or with the resume button.

The cruise control is deactivated as soon as the driver brakes to more than minus 2 km/h below set speed or pushes the cruise control on/off button.

In order to activate the cruise control, the seat belt must be used. If the seat belt is released during driving, the cruise control will be deactivated.

Sales variants

CRUIS-E Cruise control with controls in the steering wheel and I-Roll included.

CRUIS-E5* I-Torque, fuel economy optimized cruise control (including I-Roll).

*CRUIS-E5 is available for D13/G13 and D16 Euro 6 engines.

For D13 engines, CRUIS-E5 is available via fuel packages. For G13 engines, CRUIS-E5 is standard.



ENERGY EFFICIENCY

- Cruise control helps the driver to keep a constant and fuel-saving speed.
- Slow Cruise improves the fuel consumption in low-speed driving. Cruise control is activated at speeds as low as 4 km/h - making it useful in traffic queues and other low speed driving situations.
- CRUIS-E gives fuel saving functions and it is possible to adapt overspeed.
- I-Torque (CRUIS-E5) utilize more information, like I-See data and vehicle weight, to further optimize for an even lower fuel consumption.

FACT SHEET

CRUISE CONTROL



The cruise control activation is indicated in the driver information display.



Activation and setting of speed is done by controls placed on the left side of the steering wheel.

CRUIS-E

CRUIS-E is the standard cruise control that helps the driver to keep a constant speed. The cruise control activation is indicated together with information about the selected target speed in the driver information display. Minimum activating speed is as low as 4 km/h (Slow Cruise).

CRUIS-E is a cruise control with eco functions. Fuel can be saved by allowing speed variations with underspeed and overspeed when using cruise control.

All fuel saving functions are available in I-Shift Economy and Standard drive mode (but with different settings in over and under speed), but will be disengaged when I-Shift Performance drive mode is selected.

CRUIS-E5

CRUIS-E5/I-Torque is precisely balancing fuel economy with drivability in Economy drive mode. This package ensures highest accessible efficiency.

I-Torque is a unique software solution that ensures the engine applies the right power and torque to run in a way that minimize fuel consumption.

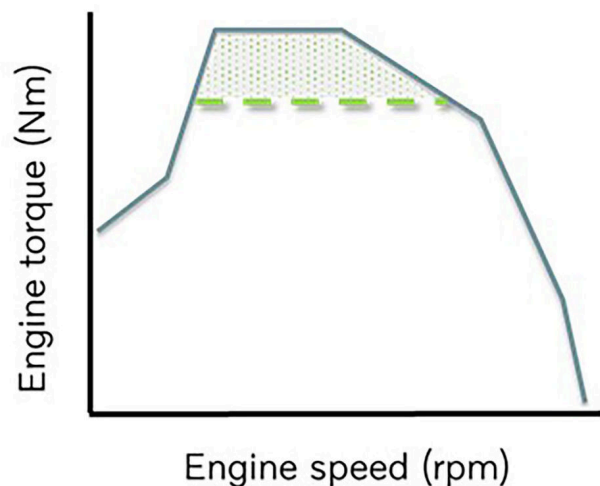
Throughout the truck's journey, I-Torque is continuously processing data and making decisions every millisecond to achieve an optimal average speed and minimize gear changes— all in order to save fuel.

The system constantly processes information about a truck's weight and speed. It also receives information from the cloud-based software system I-See (PVT-MAP), which uses map data to anticipate upcoming topography.

This means that as the truck approaches a hill, I-Torque can access data on the length and gradient. Using this information, it calculates the required engine power and torque and then selects the optimal gear.

By communicating with the truck's I-Shift gearbox and engine, I-Torque helps flatten the engine torque curve. This ultimately results in better fuel efficiency.

CRUIS-E5 is active in Economy drive mode when cruise control is used, and without cruise control for the top two gears.



I-Torque optimizes the required engine power and torque and then selects the optimal gear. In this way, I-Torque helps flatten the engine torque curve. This ultimately results in better fuel efficiency.

FACT SHEET

CRUISE CONTROL



CRUIS-E and CRUIS-E5 fuel functions

Slow Cruise

Slow Cruise improves the fuel consumption in low-speed driving. Cruise control is activated at speeds as low as 4 km/h.

Downhill Cruise Control

Downhill Cruise Control sets a maximum speed to control the vehicle speed in a down-hill.

Downhill Cruise Control primarily uses the auxiliary brakes such as the Volvo Engine Brake or the retarder to make sure that the selected speed is not exceeded. Only when required, the wheel brakes are applied.

The driver can still use the brake pedal to further lower the speed without deactivating the system.

Soft Cruise

Soft cruise temporary reduces the cruise set speed uphill to save fuel. Possible to turn on/off in workshop.

Extended I-Roll

Extended I-Roll gives I-Roll under flat terrain, also when the current speed is just below the cruise set speed. This makes it possible to use I-Roll longer times, saving more fuel. Possible to turn on/off in workshop.

Cruise acceleration limiter

The cruise acceleration limiter softens the acceleration up to target cruising speed when driving on cruise control.

Hill management

Hill management limits the engine speed acceleration above engine speed around 1500 rpm, if not possible to upshift further in current uphill section. Inhibits running the engine on unnecessary high rpm.

Downshift speeds

The vehicle will down-shift at lower rpm using drive mode Economy, utilising the wide engine torque band to save fuel.

Upshift speeds

The vehicle will be using drive mode Economy, up-shift earlier during an acceleration, in order to stay more at low rpm and save fuel.