

## Driving Down Costs with DIWA Excellence. SensoTop



**Uphill, downhill or on level roads – SensoTop optimally adapts all gear-shifting points to the prevailing route and load situation.**

### **BASP – acceleration-dependent gear-shifting programs**

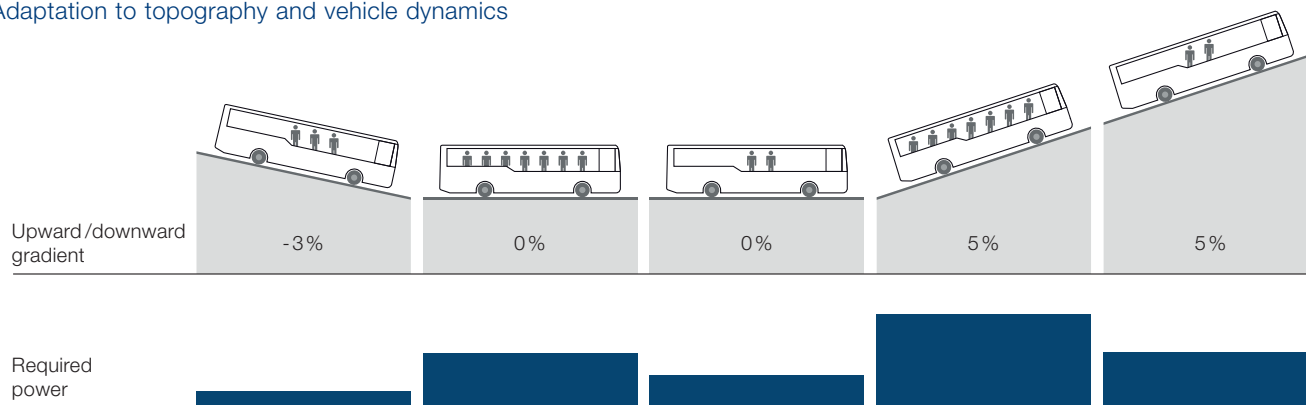
Conventional acceleration-dependent gear-shifting programs (BASP) adapt gear-shifting points steplessly – but only within relatively narrow limits – depending on the acceleration and vehicle load. Other influencing factors such as road gradients are not precisely taken into account. The selection between different gear-shifting programs merely allows an approximate adaptation to the existing topography.

### **SensoTop – the next step**

The Voith solution – a combination of the proven BASP with a maintenance-free inclination sensor. Only this combination allows fast and precise information about the topography, vehicle load and acceleration. As a result, gear-shifting points are steplessly adapted to all situations for better driving dynamics and optimum fuel consumption.

## Optimum fuel consumption with SensoTop

Adaptation to topography and vehicle dynamics



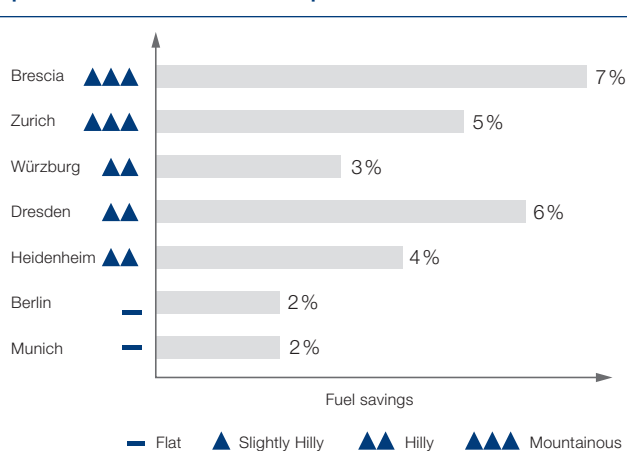
### Optimum fuel consumption

Flat or mountainous terrains, high or low loads – the optimum engine power is always available for the driver. At the same time, fuel consumption is significantly reduced by stepless adaptation of gear-shifting points.

### Success in practical operation

SensoTop has proven itself in numerous applications all over the world. In practical operation, fuel saving potentials between 2 % and 7 % – depending on the topography – were realized in comparison with optimized acceleration-dependent gear-shifting programs. This results in noticeably reduced operating costs. At the same time, SensoTop makes a vital contribution to protecting the environment by sustained cuts in CO<sub>2</sub> emissions and particulate matter.

### Up to 7 % less fuel consumption



Voith Turbo GmbH & Co. KG  
 Bus Drive Systems  
 Alexanderstraße 2  
 89522 Heidenheim, Germany  
 Tel. +49 73 21 37-85 79  
 Fax +49 73 21 37-78 18  
 diwa@voith.com  
 www.voithturbo.com

**VOITH**  
 Engineered Reliability