

# More Comfort in the Cab

## **Gas springs and dampers bring ergonomics and safety to utility vehicles.**

**More than ever, ergonomics and safety aspects are playing an essential role in the design of utility vehicles. The gas springs and dampers from STABILUS have become indispensable design elements and supplier parts for the manufacturers of construction, agricultural and forestry machines. They will conveniently open, close and adjust hoods, windows and seats anywhere on vehicles and trailers.**

*Koblenz, March 2010.* – Under the hood of a tractor, in the protective cab of an excavator, or integrated in the design of the driver seat – gas springs and dampers from STABILUS are used abundantly in the manufacture of modern utility vehicles. Their duties are manifold: They will make lifting heavy body parts easier, assist in the easy opening of cab doors and windows, provide a safe, shock-absorbing seating position for the operator, and make handling maintenance covers more convenient – to name only a few examples.

### **Many models, any position**

Currently, it's mostly the hydropneumatic gas springs from the LIFT-O-MAT and BLOC-O-LIFT lines as well as the hydraulic dampers from the STAB-O-SHOC line that allow engineers to design more ergonomics, safety, and convenience into vehicles and trailers. Thanks to a variety of models and a large selection of fitting elements within these product lines, STABILUS can provide manufacturers with options for handling even the most unusual applications or challenging mounting positions. Going far beyond the functions of a normal LIFT-O-MAT gas spring, a HYDRO-LIFT type gas spring will securely hold a cab window, roof light or maintenance cover in several positions. And with the ELEKTRO-LIFT, electrical functions can be added via a switch – such as engine compartment lighting.

While the non-locking gas springs of the LIFT-O-MAT family are used mainly for lifting, lowering, moving and adjusting body lids, engine hoods and cab windows, the locking BLOC-O-LIFT gas springs are the mounting element of choice for designing height-adjustable steering columns and individually adjustable driver seats. The hydraulic dampers of the STAB-O-SHOC line provide comfort and shock absorption in driver seats and are functional elements in trailer couplings and V-belt

tensioners. The dampers are suited for operating temperatures of -40° C to +130° C and, depending on the model, can be installed both in a position-dependent or in an omnidirectional manner.

### **Innovative and customer-oriented**

With its many types and models, the STABILUS standard program will always provide the right gas spring or suitable damper for a wide variety of possible installation positions and designs in utility vehicle construction. For highly unusual cases, the design engineers at the Koblenz-based company will also develop customer-specific solutions. With its expertise accumulated over many decades, STABILUS is the right partner for implementing particularly innovative adjustment and drive systems for the manufacture of construction, agricultural and forestry machines.

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**Note to editors: Text and pictures are available on the Internet at [www.pr-box.de](http://www.pr-box.de)!**

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