

Maintenance-free on the road: Modular camper expansion with igus linear technology

Lubrication-free plain bearing components work neatly in the vehicle interior

Long service life, lubrication-free and robust: these are the requirements for components in the interior construction of high-quality camping vehicles. They should be harmoniously integrated into the interior and must endure for at least 15 years without inspections. This also applies to removable kitchens or office boxes that provide comfort and practicality to make the vehicle fit for a holiday or business meeting. Here components of the drylin W linear system are at your service with smooth and easy adjustments.

The company Custom-Bus Camping Vans based at Langenhagen near Hannover is manufacturer of custom-made campers, RVs, motor homes and office vehicles on Volkswagen T6. Custom-Bus Camping Vans has been around for ten years, now employs ten people and brings about 80 individually designed new vehicles to customers every year. "There is a predatory competition in the area of camping vans, where you can only survive as an innovative manufacturer," explains Craig Kammeyer, company founder and CEO of Custom-Bus Camping Vans. "We develop and produce all the components of the interior. At the same time an appealing workmanship has top priority." The "Custom-Bus Multi" model contains a kitchen box as a standard in the interior. The handle-free element has sink, stove extractor, freezer compartment and storage space and weighs about 35 kilograms. The "Business" version replaces the kitchen box with an office box that weighs around 15 kilograms and contains everything a mobile office needs, such as a multifunction printer or a folding conference table. The special feature: each box can be moved via a sliding unit integrated in the furniture and removed with a few hand movements.

Floor rails and ball bearings are not practical

In the search for suitable sliding elements, Craig Kammeyer looked for sliding systems on the market and finally found them at the motion plastics specialist igus. Possible alternatives, such as floor rails or re-circulating ball guide systems, are abandoned for several reasons. On the one hand, they have to be lubricated, whereby gradually more and more dirt is deposited, which would impair the smoothness. On the other hand, the alternatives would have been much more expensive and would not fit into the filigree construction of the interior. On the other hand, the alternatives would have been much more expensive and would not fit into the filigree construction of the interior. Between the rail made of hard anodised aluminium and the carriage there is a bearing surface of abrasion-resistant iglidur plastic, which provides very good results in terms of friction and wear. Solid dry lubricants are incorporated in the material. This means that the bearings are designed for the long-term, maintenance-free dry operation. According to the customer's requirements, the system is not an inspection part due to the use of drylin W and is designed for the required service life of at least 15 years.

To know how the modular concept of Custom-Bus Camping Vans works, watch the video at: <https://www.youtube.com/watch?v=kKq5xklU-Pk>

Captions:



Picture PM1017-1

Custom-Bus Camping Vans develops and produces all components of the vehicle interior in its own workshop. (Source: CB Fahrzeugbau GmbH & Co. KG)



Picture PM1017-2

A tool-free removable desk on an igus guide system allows the operation of two monitors and an integrated multifunction printer and makes the camper a well-equipped office. The partnership between the Custom-Bus CEO Craig Kammeyer (right) and igus technical consultant Maik Röttger (left) meant that the development time for the guide system was only around eight weeks. (Source: igus GmbH)



Picture PM1017-3

Maintenance-free linear guides from the igus drylin W modular kit are used. Your advantage: Unlike metal ball guides, they do not have to be lubricated externally. A crucial argument for the installation in the campers of Custom-Bus Camping Vans. (Source: igus GmbH)

PRESS CONTACT:

Oliver Cyrus
Head of Media and Advertising

igus® GmbH
Spicher Strasse 1a
51147 Cologne
Tel. 0 22 03 / 96 49-459
Fax +49 22 03 / 96 49-631
ocyrus@igus.de
www.igus.de/de/presse

ABOUT IGUS:

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs around 2,950 people around the world. In 2015, igus generated a turnover of 552 million euros with motion plastics, plastic components for moving applications. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms "igus", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "energy chain", "energy chain systems", "flizz", "iglide", "iglidur", "igubal", "invis", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "twisterchain", "plastics for longer life", "robolink", "xiros", "xirodur" und "vector" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.