

ZEDEX® in

Crane and Bridge Construction











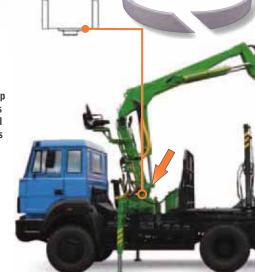


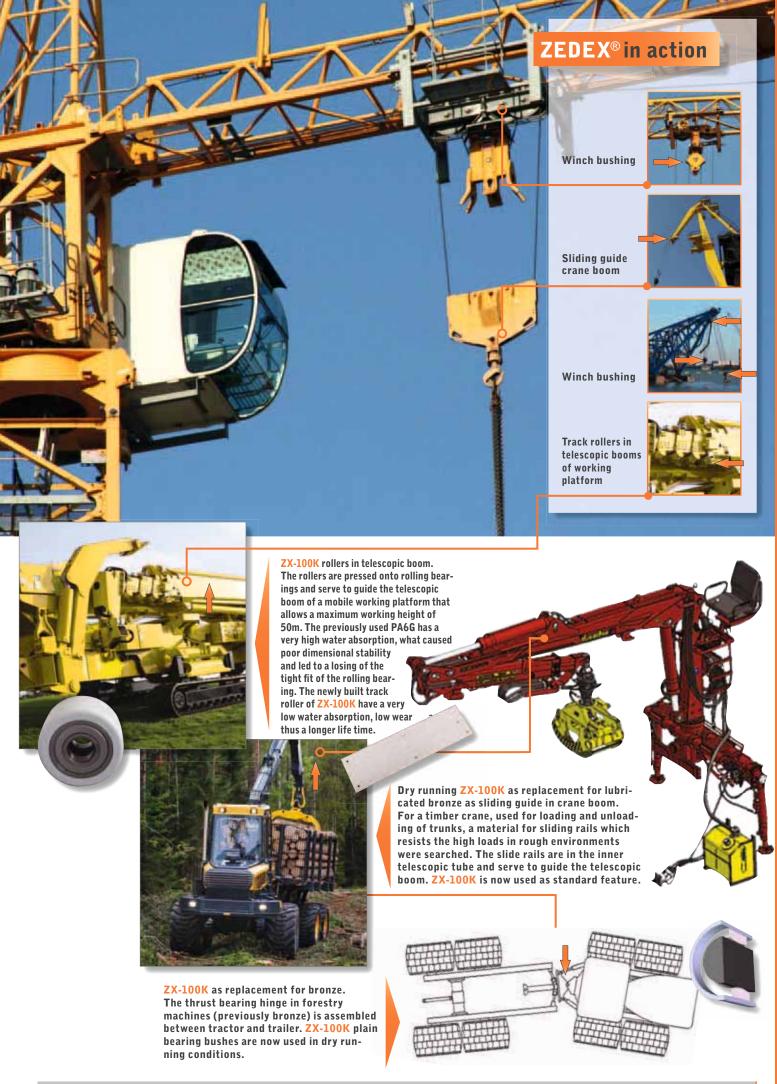


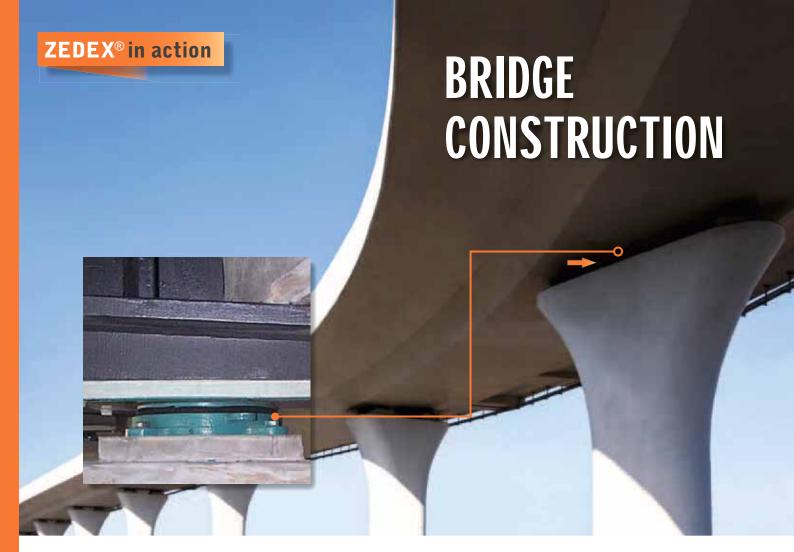


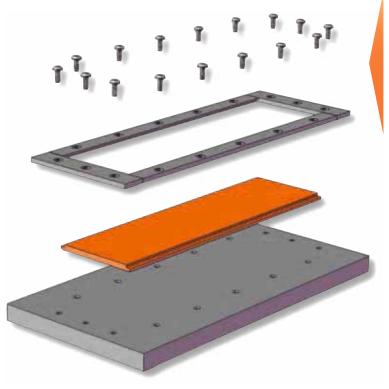
In crane bodies for trucks, bearing strips of ZX-100K are applied on the crane base. Previously bearing strips of cast nylon with oil were used causing dimension stability problems

ZX-100K as sliding guide in crane boom. The ZX-100K sliding guide must be lubricated only once when installing in contrast to the substituted part of modified PA6. Earlier when the PA6 was used, there were serious problems with the stick slip effect, which it brought immense difficulties in this application with it. The polyamide sliding guide had also big problems at extreme ambient temperatures e.g. from -30°C to +40°C, because it is hygroscopic material which leads to dimensional stability problems, or jam. For our material however, these tasks are not a problem. There were an improvement of the sliding value under extreme temperatures and maximum loads, archiving a stable operation and avoiding periodic maintenance efforts. ZX-100K is now used as standard feature.

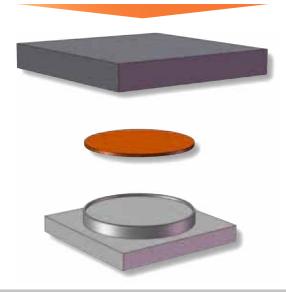








ZX-100K and ZX-410VMT as sliding guide in bridge bearing. Previously a bearing pad of PTFE was used as a bearing in the bridge structure. The PTFE was too much sensitive to stress and wear, which led to creep and to permanent deformation. The PTFE could not meet the requirements of the application already after short time, and that is why the search for alternatives was initiated. We replaced the previously used material by our material ZX-100K, which has allowed a durable surface pressure up to 30 MPa, brought a reduction in the wear values thanks to the excellent tribological properties and an considerably extension of the life-time. At this time our materials ZX-100K and ZX-410VMT (for higher loads) are intensively tested, so far with great success and satisfaction.





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