









ZX-100K bushing in a lathe.

Earlier in those lathes bearings of bronze were used. They have had a big disadvantage: depending on frequency of usage and load, the plain bearing bush had to be often lubricated, which was associated with higher maintenance costs and efforts. Thanks the replacement of bronze by our material ZX-100K the lubrication belongs now to the past. It

resulted in cost savings throughout the whole production process. Not only the customer had no longer to apply the lubricant, but has not even had to buy it any more. Furthermore the machine standing time have been reduced and the usage times increased. The biggest advantage, however, was the significantly reduction of the friction and wear of the sliding bearing, which led to a more efficient, more accurate, less stressful working process, thus extending the lifetime of the machine.



Installation of a dry running ZX-100K bearing in a horizontal balancing machine, as a substitute for lubricated bronze bearings. Due to the excellent tribological properties of ZX-100K there is no more necessity to use lubrication. The maintenance efforts were reduced and the lifetime was increased by preventing abrasive wear. Despite these great advantages, also enormous costs were saved through the Zedex® solution.

ZX-100MT as sliding surfaces in concrete sawing machine as dirt resistant bearing.

The sliding guides are used to guide the saw table, which leads the concrete parts during the cutting. Slideway made of ZX-100MT with a honeycomb structure able to collect the grit, meet the required properties.



ZEDEX® in action



Trapezoidal threaded nuts in carcase press



Spur gear in rereeling, slitting and filament winding machine



Honeycomb structure bushing in a filament winding machine



Toothed wheel/ linear guide in packaging machine









ZX-100K in a hanging conveying system for continuous assembling.

In turn movements, due to the axial joint, lateral oscillations are possible and shaft alignment mistakes from

production are balanced. In this application, special axial joint bearings (outer and inner diameter respectively 260mm and 80mm) made of steel with the sliding part made of ZX-100K are used.

ZX-100K trapezoidal threaded nuts in a lifting platform.

The trapezoidal threaded nuts (TR40) of ZX-100K are used in the drive of a lifting platform and their load capacity is 5 tons each. It has been used as standard feature for 10 years and in contrast to the previously used spindle nut made of bronze, it is only a lubrication during assembly necessary. With this great advantage, generated by its excellent tribological properties, enormous costs were saved.



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