

Project:: Comparison of different High Helix Lead Screw Drives

Contact / customer:

Test target: Wear over life-time and efficiency

Test description and results:

Testing of different lead screw drives from american and european manufacturers. Outer diameter of the lead screw is nearby 10mm and the pitch is nearby 25mm (25mm stroke for one turnaround).

Target of the lab-test is to get information about the wear results, the life-time and the efficiency of the lead screw drives



Picture similar to the tested versions

Test parameter:

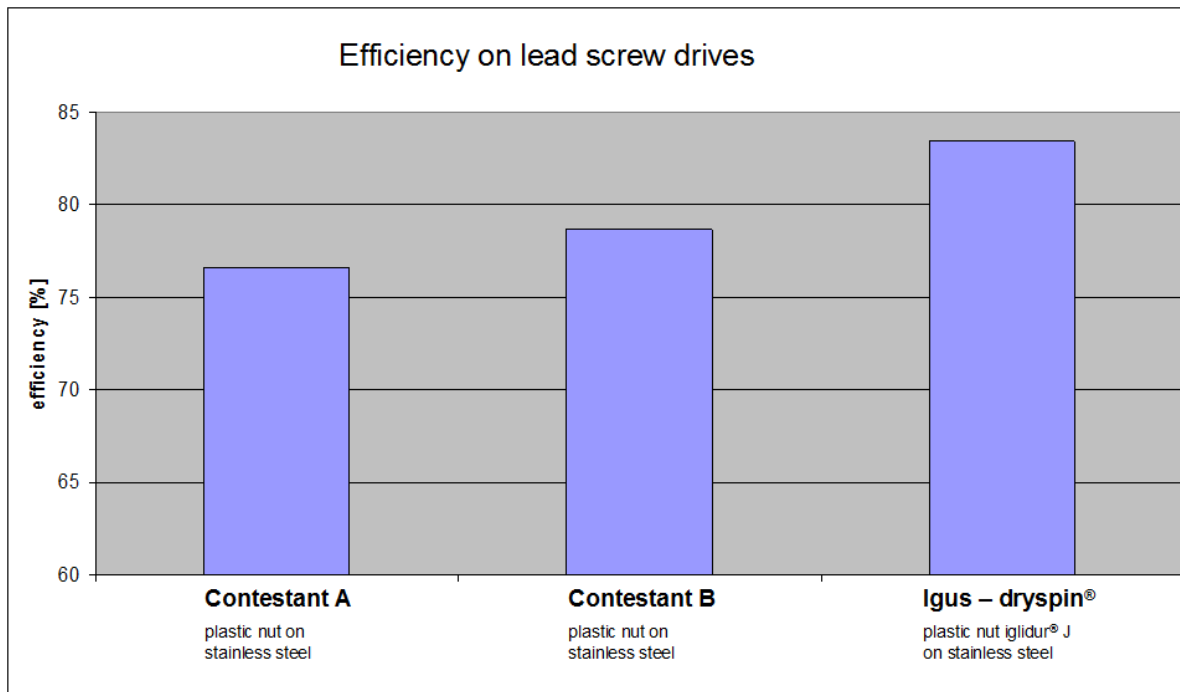
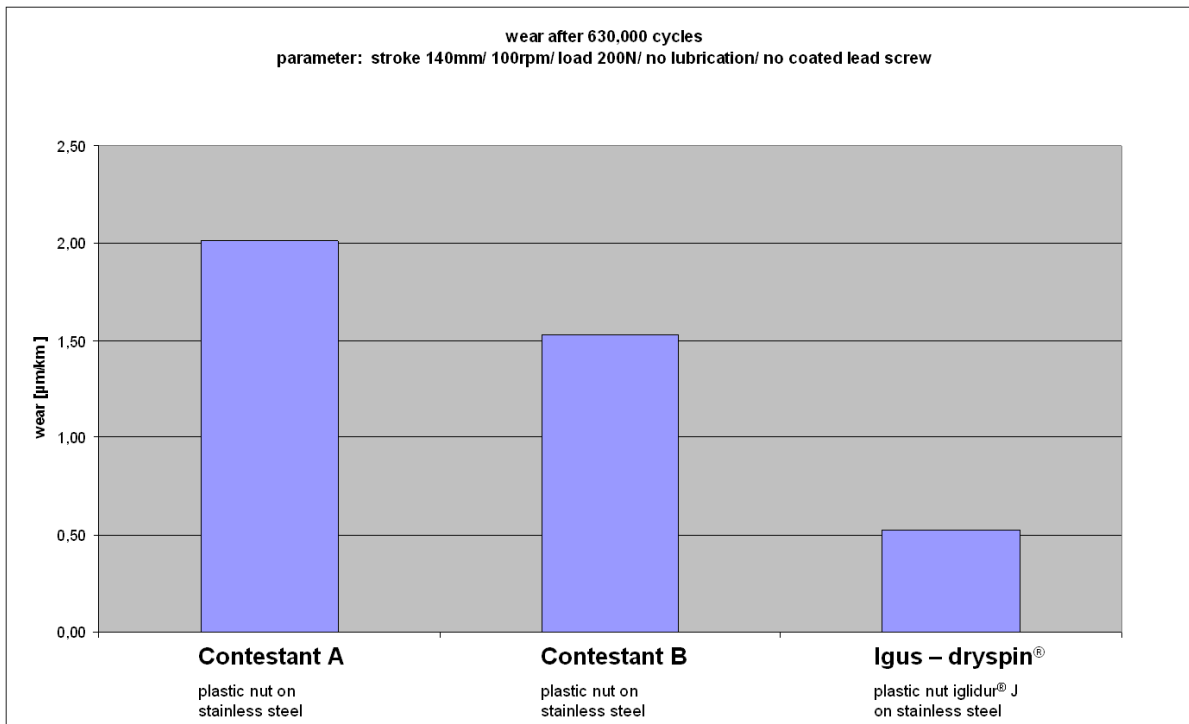
Stroke 140mm / 100 RPM / axial load 200N / no lubrication / no coating of lead screws

Test rig:



The preceding information is the result of tests carried out. None of the information comprises one or more guarantees on certain properties nor does it comprise one or more guarantees in respect of the suitability of a product for a specific purpose, since the tests were carried out under laboratory conditions. A guarantee on certain product properties and/or their suitability for specific use is to be made in writing in the order confirmation. Since the results have been gained under laboratory conditions, which are almost never able to simulate real application-conditions, we recommend application-specific measurements under real application conditions.

Wear results after 630.000 cycles and efficiency of the lead screw drives:



Conclusion:

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