

Title (en)  
BALL SCREW

Title (de)  
GEWINDETRIEB

Title (fr)  
VIS A BILLES

Publication  
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Application  
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Abstract (en)  
[origin: US2004093973A1] The invention relates to a ball screw comprising a threaded nut, a threaded spindle, supporting rolling bodies, which are provided in the form of balls rotating inside thread grooves of the threaded nut as well as of the threaded spindle, and comprising a return area for the balls. In order to considerably reduce the manufacturing costs, especially by a non-cutting fabrication of the threaded nut, and to obtain a higher power density by homogenizing the contact area percentage of the ball screw, the threaded nut is comprised of a helically wound profile material according to the invention. The invention relates to a ball screw comprising a threaded nut (2), a threaded spindle (1), supporting rolling bodies (3), which are provided in the form of balls rotating inside thread grooves (5,4) of the threaded nut (2) as well as of the threaded spindle (1), and comprising a return area (6) for the balls (3). In order to considerably reduce the manufacturing costs, especially by a non-cutting fabrication of the threaded nut, and to obtain a higher power density by homogenizing the contact area percentage of the ball screw, the threaded nut (2) is comprised of a helically wound profile material (7) according to the invention.

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