Title (en)

LINEAR GUIDING DEVICE FOR A FEED AXIS OF A MACHINE TOOL

Title (de)

LINEARFÜHRUNGSEINRICHTUNG FÜR EINE VORSCHUBACHSE

Title (fr)

DISPOSITIF DE GUIDAGE LINÉAIRE POUR UN AXE D'AVANCE D'UNE MACHINE-OUTIL

Publication

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Application

EP 16703263 A 20160114

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Abstract (en)

[origin: WO2016116354A1] The invention relates to a linear guiding device (1) for a feed axis (2), preferably a machine tool (3), comprising at least the following components: at least one sensor surface (4) of the linear guiding device (1) for the linear guiding of a carriage (5) or a spindle nut (6); at least one micro sensor (7), preferably at least one strain gauge strip (8, 9, 10, 11, 12) and/or at least one resistance temperature sensor (13, 14) for detecting a strain and/or compression and/or temperature of the at least one sensor surface (4), wherein the at least one micro sensor (7) is permanently connected to the at least one sensor surface (4). By means of the invention described herein, a load of a linear guiding device in the operation of a machine tool can be directly measured for the first time.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2016116354A1

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