Abstract

The invention relates to a double-sided or single-sided machine tool comprising a preferably annular first working disk and a preferably annular counter-bearing element, wherein the first working disk and the counter-bearing element can be driven rotationally relative to each other by means of a rotary drive, and wherein a preferably annular working gap is formed between the first working disk and the counter-bearing element for the double-sided or single-sided machining of flat workpieces, preferably wafers, wherein the double-sided or single-sided machine tool comprises multiple sensors which record measurement data relating to tool and/or machining parameters of the double-sided or single-sided machine tool during operation of the double-sided or single-sided machine tool, wherein a control apparatus is provided which obtains the measurement data recorded by the sensors during operation of the double-sided or single-sided machine tool, wherein the control apparatus comprises an artificial neural network that is designed to create a state vector of the double-sided or single-sided machine tool from the measurement data and to compare said state vector with at least one target state vector. The invention also relates to a method for operating a double-sided or single-sided machine tool.

Fig. 1