

A super precision linear guide is intended for making super precision machine tools used in machine-building and tool-making productions for processing of flat surfaces with super-high precision. The guide has supporting flat support, and closing flat support. At that, supporting flat support is equipped with means of stabilization of position of movable element of the support with respect to the movable in space plane. The closing flat support is equipped with means for stabilization of linear displacement of the movable element of the closing support, this provided displacement of the points of the movable element resting at the trajectory of the projection of straight line to the plane of movable element being parallel to the direction of displacement of the movable element and going through the axis of symmetry of the sensors of stabilization of linear displacement of movable element gap values with installation at the middle line of the base of closing flat support without displacement with respect to that straight line. Structure of the super-precision linear guide provides the fact that all the points of the movable element of the supporting flat support hinged to the movable element of the closing flat support position of which is stabilized with respect to the fixed in space plane move in lines parallel to that plane.