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International Patent Application

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Assembly device

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Abstract:

The present invention relates to an assembly device 10, in particular a fully automatic assembly device for producing microsystem technical products and for assembling components in the semiconductor industries, comprising an assembly table 12, a material transport system 32 that transports the products to be placed with components, at least one transport system 16 mounted on the assembly table 12, and at least one movable component transport unit 28 with at least one assembly head 30. The component transport unit/s 28 is/are arranged on one or more carrier system(s) 20 displaceable by means of a transport system 16 in parallel to the direction of transport of the products to be placed with components, which products are in turn displaced by the material transport system/s 32. The material transport system 32 consists of at least two individual transport systems 34, 36, 38, 40, 42, 44 that run parallel, each individual transport system 34, 36, 38, 40, 42, 44 being provided with separately controllable drive systems 46, 48, 50, 52, 54, 56, and the assembly device 10 in addition comprising at least one information memory for receiving and processing component-specific data of a plurality of components within a component reservoir 58, and of data relative to the position thereof within the component reservoir 58, the control of the component transport unit/s 28 and/or the assembly table 12 and of the thereon attached material transport system 32 ensuing on the basis of these data.

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