

The invention concerns device and method for performing the coaxial joint connection of lengthy components, in particular rails, by friction welding. In accordance with the invention the friction welding device (a) is provided for, which has adjustable clamping means (2, 2 ') for clamping of the ends of components (11, 11 '), at least, one of which is made with possibility of displacement from the axis in parallel to the end plane (12, 12 ') of components relative to another clamping means, and also with possibility of bringing into a fixed state coaxially with another component. The disclosed method in accordance with the invention is characterized by the fact that in the stage of heating the cross-sectional surfaces (12, 12 ') of the ends (11, 11 ') of components are pressed against each other and the end of, at least, one component is moved relative to another component with misalignment, bringing thus the face area to the increased temperature, after which axial alignment of components (1, 1 ') is carried out with their bringing into fixed state, and in the area of thermal action of welding under increased pressure a tight metallic bonding is formed of the ends (11, 11 ') of components.