

Machine for contact jump welding of rails includes two clip-on chucks made in the form of two double-armed levers set on common central axis isolated each from another. Two clip-on chucks are made with possibility of movement along axis relative to each other from two hydraulic cylinders of fusing-setting connecting them. Fusing-setting hydraulic cylinders have bimetallic current-carrying rods, each of double-armed levers by one end is pivoted with rod or casing of clamping hydraulic cylinder respectively, and other end is equipped with clamping and current-carrying grips. Two welding transformers are built in hollow double-armed levers of one of two clip-on chucks connected by conductive bars through current-carrying parts of rods of fusing-setting hydraulic cylinders with current-carrying clamping grids. Clamping hydraulic cylinder of machine is made with hydraulic intensifier built in its rod, and in rod piston of hydraulic intensifier is built a check valve with calibration spring and shank, and on cover of hydraulic intensifier is mounted a pressure valve connected by internal channels with cavities of hydraulic intensifier, two hydraulic fusing-setting cylinders are made in the form of cylinders tandems in each of which on common rod are mounted two pistons separated by a partition. Machine allows to change relatively low pressure of fluid coming into clamping cylinder and more higher pressure without use of external service lines thus increasing clamping effort.