

A centralized automation system of lubrication of bearing assemblies of roll mill roller support with oil-air film has oil station with liquid lubrication material, block for air preparation, oil-air feeders, control panel, control devices, and signaling devices, pipelines of lubrication material, with covers, twin sleeves separated with distance plate, bearing in spacer rings of which nozzles are installed and which is installed on roll necks. Outer surface of the bearing is sealed with inner surface of pads. In the distance plate channels are provided, those connect channels in covers of the pads and the cavity of the pads to environment. The nozzles are arranged with openings directed to the outer rings of the bearing. A method of lubrication of bearing assemblies of roll mill roller supports with oil-air film includes dosing of lubrication material, mixing with compressed air in oil-air feeders and supply of mix to oil-air piping system, supply of oil-air mix to the rings of the bearing and discharge of worked-out lubrication material. Supply of oil-air mix is performed with flow rate that is directly proportional to air pressure that is supplied to oil-air pipeline, with formation of elastic hydrodynamical film, that provides lubrication and disconnection of contact surfaces.