

A vibration finishing machine with electromagnetic actuator comprises an upper and a lower circular lapping tools, circular electromagnetic vibration exciter with its core and coils fixed under the lower lapping tool. Its anchors are attached to an annular reaction mass, concentrically suspended from the lower lapping tool. A vertical elastic system is clamped centrally in the lower lapping tool in the middle of elastic rod, on two ends of which flanges are installed. The flanges are interconnected securely by a hollow cylinder slotted in the middle. The whole structure rests on antivibration pads placed on the base. The ends of the elastic rod are attached to the flanges with bearing assemblies.