

Two-frequency vibrator with a constant amplitude of the forcing force consists of a shaft and unbalanced weights. The shaft is rigidly connected to the electric motor shaft, and a driving unbalance mass is rigidly mounted on the shaft, while a driven unbalance mass is mounted on the shaft, designed to rotate freely on the device shaft. A concentric groove is formed on the side surface of the driving unbalance mass, and the side surface of the driving unbalance mass itself faces the driven unbalance mass. A stop pin is rigidly secured to the driven unbalance mass, the free end of which enters the groove of the driving unbalance mass, thereby limiting the angle of rotation of the driven unbalance mass relative to the driving unbalance mass, and the masses of both unbalance masses are identical.