

Drum vibrating separator comprises a drum with a feed hopper located at one end of the drum, screens mounted concentrically along the entire length of the drum with radial spacing between them, and screen cell sizes that decrease from the drum axis, and the drum and screens are U-shaped, the lower part of which has the shape of half a truncated cylinder with the rounded end facing downward, the upper part consists of two flat rectangular elements arranged vertically and parallel to each other, openings for discharging separated fractions into chutes are located on the end of the drum opposite the feed hopper, the vibrating drive consists of two unbalanced weights, each of which is attached on both sides to two drum projections and positioned between them, and are mounted symmetrically beneath the drum near its opposite ends, capable of providing rotational movement via flexible couplings from electric motors mounted on the frame, the drum is attached to the frame by means of a double pneumatic suspension, each of which contains two elastic pneumatic cylinders attached to the frame. The drum and screens have a flat cross-section of the lower cylindrical portion of their side surface on the side of the feed hopper, which is angled relative to the axis of the drum and screens.