

CIRCULAR SCREEN FEEDER APM

Technical solution

The machine frame, including the support plate, is made as a weldment. The body with extrusion screens has a flat fixed bottom. The top part of the body contains a strong steel ring on which a skip/loader is fixed. The feeder screens are made of abrasion-resistant steel. The holes in the screens are burned under water with a plasma cutting machine. The manufacturing method guarantees the conicity of the holes and thus good permeability of the raw material through the screen. Furthermore, it is guaranteed that the screen material is not thermally affected and its abrasion resistance properties are maintained.

The bottom of the machine is made with exchangeable plates, which are made of the wear plate. The rabble and scraping arms are made as weldments and are provided with the wear-resistant hardfacing. The arm linings are also provided with the wear-resistant hardfacing. A combination of chromium-carbide and tungsten-carbide materials is used as anti-wear protection.

The barrel is equipped with counter knives, which can be equipped with steaming.

The main shaft with the arms is driven by an electric motor via a pre-positioned gearbox and an epicyclic gearbox. The discharge disk is driven by a separate electric motor with a gearbox. Smooth machine start-up and speed regulation is controlled by a frequency converter. The oiling of gearboxes is ensured by oil cartridge without forced circulation.

Technical specifications:

<i>Extrusion mixer type</i>	APM 15	APM 19
Inner diameter of the body [mm]	1500	1900
Height of the body [mm]	1050	1050
Number of screens	10	10
Output of the main motor [kW]	50-75	75-110
Diameter of the collecting plate [mm]	2800	3200
Machine output [m³ of clay/hour]	max. 30	max. 70
Weight approx.[t]	13	16
Number of rotations of arms/min.	max. 9	max. 9