



## Type 1.9 screen feeder

### **Screen feeder's purpose:**

The type PS 1.9 screen feeder is used to prepare a mass from pre-ground raw materials, free of rocks, roots and mechanical contamination. The screen feeder's end product is mixed and significantly softened, which is why the machine is placed before the roller presses in the production line.

### **Technical specification:**

Screen basket dimensions (internal diameter):	- 1900 mm,
Screen basket capacity:	- ~6.7 m <sup>3</sup> ,
Machine capacity:	- up to 20 m <sup>3</sup> /h, - Capacity depends on screen mesh size.
Screens with mesh size:	- 20 x 40 mm or other,
Rotations: - Extractor	-~4.2 RPM,
- Collection plate	-~4.2 RPM,
Drive: - main:	- planetary gearing,
- collection plate:	- bevel gear with 45 kW motor.

The total weight with top extension, unfilled: - ~12.400 kg.

### **TECHNICAL DESCRIPTION:**

#### **General design:**

The screen feeder is composed of the following main units: the body, frame, extractor, screen plates and a state-of-the-art extractor drive based on an integrated planetary gearing.

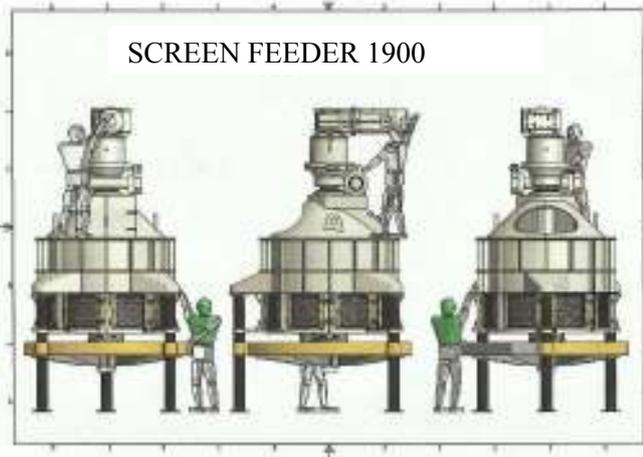
The screen feeder is equipped with a full detector (min/max). The extractor's drive employs a state-of-the-art solution, the so-called planetary gearing mounted on top of the drive shaft. The drive is mounted on the screen feeder's structure. The whole drive is shielded against dust.

#### **Description of operation:**

The material fed through the screen feeder should have a moisture level between 15 and 30% and should be pre-ground and loaded continuously. The raw material's stream should be directed so that it falls on the centre of the drum, not the tube sheets. The material is distributed from the inside by a crosshead, carried by rotating extractor handles and directed towards the screens. The material is sieved by the screens and pressed through openings. After being sieved and pressed, the raw material falls onto the rotating collection plate propelled by a separate electric motor. The collection plate conveys the sieved material to the scraper which carries it outside the machine and further down the technological line.



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Photos below (during loading)



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