The exhibition of presses for making ceramic tiles was of great variety.

The Welko firm from Italy showed a hydraulic friction four-nest press for tiles measuring 150 × 150 mm (see Fig. 1). The number of cycles per minute was 25–28 which determined its output of about 150 m²/h. Pressing was triple-staged: the first hydraulic, and the next two mechanical, through a friction drive. The total pressure developed by the press was 500 ton. The press was installed with a rotating device for the paired setting of tiles face to face, and assembling equipment for stacking. The press operation was automatically controlled with an electronic system. This press can carry out double-layer filling which is important for the production of floor tiles, especially colored ones.

Another Italian firm, Sacmi, exhibited a four-nest friction-hydraulic press with a total pressure of 500 tons, and up to 31 cycles/min. The press was electronically controlled with transistors.

The Thuringia firm from East Germany exhibited two-nest hydraulic presses for tiles 150 mm square, with a capacity of 63 m² (2800 tiles) an hour. Pressing was tripled stage: the first stage, the upper, with a 30% compression, and the other two stages from the lower. The press was assembled with a fettling machine and stacker. A lot of interest was paid to the report from the firm's representatives to the effect that tests were being prepared (which will be made in Kharkov) of a hydraulic four-nest press with a total pressure of 320 tons and a capacity of 135 m²/h (25 cycles a minute).

The rotational 6-nest tile press (Fig. 2) shown by Dorst of West Germany was interesting. Pressing tiles 150 mm square, the output of the press is up to 160 m²/h. Pressing is triple-staged: the first is done by the free fall of the upper plunger weighing 100 kg from a height of 60 mm, the second with a hydraulic pressure of up to 20 ton, and the third also hydraulic with a force of up to 70 tons. Powders are poured...
Fig. 2. Rotary press made by the Dorst Company.

Fig. 3. Line with rotary presses made by Dorst: a) for tiles 150 mm square, b) for tiles 100 mm square, c) for mosaics of various sizes: 1) press RP30/6, 2) machine for fettling tiles PME D/150, 3) stacking unit SA 4/50, 4) stacking unit SA 4/100, 5) stacking unit for mosaics MST IV 10.

into the mold with a rotating plate. Among the designs shown for revolver presses, known to us up to now, this press is distinguished by the incorporation of a vacuum pump head for taking up the pressed tiles and resetting them in stacks, and also by the extraction device for collecting dust from the fettling heads. The press is built with a stacker (Fig. 3).