

Typical sets of equipment for foam concrete production

for plants with productivity from 10 to 150 cubic meters of foam concrete blocks per day

Before starting the foam concrete production line and before making your order you need to give a definite answer to the following questions:

1. What sizes of foam concrete blocks are planned to be produced. The dimension types often different from country to country. When ordering metal moulds it is important to know the exact dimension type as it will be impossible to change it afterwards. Though in the same mould you can produce both building blocks and laster ones. That means that while producing blocks it is possible to change their thickness but not length and width. Standard block sizes are:
 - a. 400x300x200 (100) mm
 - b. 500x300x200 (100) mm
 - c. 588x300x200 (100) mm
 - d. 600x300x200(100) mm
 - e. any other sizes are also possible
2. How many cubic meters of blocks is it planned to produce?
3. How do you plan to keep the cement and sand and feed the foam-concrete machine with it? There are 2 possible ways- manually (cement is taken out of the bags and sand is passed by buckets) and automatically (cement comes from silo and sand from bunker).

In the given below table you can see typical sets of equipment for the plants with different productivity:

	Productivity from 5 to 30 cub. m. per day	Productivity from 30 to 100 cub. m per day	Productivity from 100 to 150 cub.m. per day
cement+sand	Hand feed	1. cement silo from 60 to 150 tonne 2. sand bunker 3. screw for cement feed 4. sand conveyor, sand seeding machine 5. automatic dosing line	1. cement silo from 60 to 150 tonne 2. sand bunker 3. screw for cement feed 4. sand conveyor, sand seeding machine 5. automatic dosing line
machine for foam concrete production	Fomm-Prof 1000	Fomm-Prof 1000	1. Fomm-Pusk 2. Cutting machine Prof
metal moulds	From 5 to 30 pieces of the chosen dimension type	From 30 to 100 pieces of the chosen dimension type	From 150 to 240 moulds for cutting machine
additional equipment	1. Compressor with productivity from 500	1. Compressor with productivity from 800	1. Compressor with productivity from 800



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	litres per minute 2. Air cleansing system 3. Water feed and dosation	litres per minute 2. Air cleansing system 3. Water feed and dosation	litres per minute 2. Air cleansing system 3. Water feed and dosation
Additional requests	1. Premises from 200 to 400 m ² 2. outdoor place for the stock 3. electricity 4. water 5. heating	1. Premises from 400 to 1500 m ² 2. outdoor place for the stock 3. electricity 4. water 5. heating	1. Premises from 1500 to 3000 m ² 2. outdoor place for the stock 3. electricity 4. water 5. heating
Quantity of workers	From 3 to 15 people, one shift	From 15 to 30 people, two shifts	From 15 to 20 people, two shifts

When planning the production line the attention should be paid to the consumption of materials.
Consumption of materials for foam concrete production:

On every cubic meter of foam concrete of medium density it is needed:
(the information is approximate and may change due to the produced density and production technology):

1. Foam agent GreenFroth — 0,9 litres
2. metal mould lubricant Pieri — 0,4 litres
3. cement M500 D0 — 300 kg
4. sand with fraction up to 2 mm, clay and other inclusions no more than 2 % - 220 kg
5. water — 170 litres

Below it is given the averaged table for daily usage of components:

	10 cub. m per day	30 cub. m per day	50 cub. m per day	100 cub. m per day	150 cub. m per day
Cement	3 tonne	9 tonne	15 tonne	30 tonne	45 tonne
Sand	2,2 tonne	6,6 tonne	11 tonne	22 tonne	33 tonne
Water	1700 litres	5100 litres	8500 litres	17000 litres	25500 litres
Foam agent GreenFroth	9 litres	27 litres	45 litres	90 litres	135 litres
Metal mould lubricant Pieri	4 litres	12 litres	20 litres	40 litres	60 litres

More detailed information can be required from the specialists of Stroy-Beton plant. It is also possible to get schemes of equipment placement both in the existing shop and for the projected one.

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