**Amended Claims**

1. A pre-fabricated floor plate production line, including, along its lengthwise direction, a production area, a curing area, a post treatment area and a storing area in sequence, with an overhang conveying system being arranged thereabove,

characterized in that the production area is provided with a floor plate mold therein, so that reinforced bars and concrete can be used to form a pre-fabricated floor plate in the floor plate mold;

the curing area is provided with a steam curing room therein, so that a pre-fabricated floor plate as formed can be cured via steam, and then removed from the mold after the curing is completed;

the post treatment area is used for performing post treatment on the pre-fabricated floor plate already formed;

the storing area is used for storage of the pre-fabricated floor plate after being post treated; and

the overhang conveying system is used to convey the floor plate mold and/or the pre-fabricated floor plate between these areas,

wherein the production area is divided into two half-areas, one of said two half-areas including a reinforced bar storing region and a reinforced bar binding region, while the other including a concrete processing region and a surface brushing region,

the reinforced bar storing region is used for storing reinforced bars necessary for manufacturing the pre-fabricated floor plate;

the reinforced bar binding region, in which the floor plate mold is arranged, is used for performing binding operations of the reinforced bars in the floor plate mold, and then the floor plate mold together with the reinforced bars therein is conveyed to the concrete processing region;

the concrete processing region is provided with a vibrating table and a concrete pouring device, so that concrete can be poured into the floor plate mold and vibration

can be applied thereon, and then the floor plate mold is conveyed to the surface brushing region; and

the surface brushing region is used to roughen surfaces of the concrete.

2. The pre-fabricated floor plate production line according to claim 1, characterized in that the curing area is provided with one or more steam curing rooms, for performing steam curing on the pre-fabricated floor plate as formed according to predetermined temperature and humidity conditions.

3. The pre-fabricated floor plate production line according to claim 1, characterized in that the post treatment area includes a washing region and a repairing region, wherein the washing region is used to wash the pre-fabricated floor plate already formed, while the repairing region is used to repair the pre-fabricated floor plate already formed to eliminate local defects thereof.

4. The pre-fabricated floor plate production line according to claim 1, characterized in that the storing area is also used to provide water curing for the pre-fabricated floor plate stored therein when necessary.

5. The pre-fabricated floor plate production line according to claim 1, characterized in that a loading area is arranged behind the storing area for loading and delivery.

6. The pre-fabricated floor plate production line according to claim 5, characterized in that the production area, the curing area, the post treatment area, the storing area and the loading area occupy a total area of the pre-fabricated floor plate production line in percentages of 30±5%, 20±5%, 10±5%, 30±5% and 10±5%, respectively.

7. The pre-fabricated floor plate production line according to claim 1, characterized in that the pre-fabricated floor plate production line further includes a boiler arranged in the production area.

8. The pre-fabricated floor plate production line according to claims 1 to 5, characterized in that the overhang conveying system includes:

a first movement mechanism that can be movable along a lengthwise direction of the pre-fabricated floor plate production line;

a second movement mechanism that is connected with the first movement mechanism and can be movable along a widthwise direction of the pre-fabricated floor plate production line;

an overhang mechanism that is connected with the second movement mechanism and can be movable along a vertical direction; and

a controller for controlling the first movement mechanism, the second movement mechanism, and the overhang mechanism.

9. The pre-fabricated floor plate production line according to any one of claims 1 to 5, characterized in that the pre-fabricated floor plate production line has a length of 60-100 m, and a width of 23-25 m.