

ABSTRACT

TITLE: INTELLIGENT SLEEVE GROUTING APPARATUS FOR PREFABRICATED STRUCTURE, AND CONSTRUCTION METHOD

5 The objective of the present invention is to provide an intelligent sleeve grouting apparatus for a prefabricated structure, and a construction method. Regarding the defects of the prior art, a grouting state is intelligently determined by monitoring, in real time, data such as grouting pressure, flow velocity, and flow volume, and a corresponding grouting adjustment measure is made, thereby ensuring grouting quality. The intelligent sleeve
10 grouting apparatus for the prefabricated structure comprises a hopper, a material bin, a screw pump, a grouting pipe, a pressure sensor, and a flow meter; the material bin is connected to an outlet of the hopper; the screw pump is provided inside the material bin, and a grout outlet of the screw pump extends out of the material bin; the grouting pipe is connected to the grout outlet of the screw pump; the pressure sensor is provided at a grout outlet of the grouting pipe;
15 and the flow meter is provided between the screw pump and the grouting pipe. **Figure 1.**