

HIGH-SPEED COUPLER

ABSTRACT

5 Disclosed herein is a high-speed coupler that includes a coupling member coupled, at the bottom thereof, to a bed or support shaft of a drilling agitator, a housing integrally formed on the top of the coupling member, a rotor (rod) being rotatably inserted and installed into the
10 housing, and coverings coupled to or decoupled from both ends of the housing. The high-speed coupler further includes a busing or dual busing integrated on the rotor (rod). By applying the high-speed coupler to the drilling agitator, it is possible to reduce the wear of the bushing
15 while reducing the rotational load and friction of the rotor (rod) and to efficiently promote the construction of the composite ground with deep soil-cement mixing (DCM) by increasing the rotational speed of the rotor (rod).

Figure 1