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(54) **BRUSHLESS HIGH SPEED MOTOR**

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(57) **ABSTRACT**

The present application provides a new type of brushless high speed motor, in which the integrated shell and air duct are separately fixed to the outside of the inner hole column, the material of the air duct and the outer shell is BMC, and the material of the inner hole column is metal. The two parts are combined and configured to be made of different materials, which can effectively buffer and reduce the resonance point of the motor, and reduce the noise caused by the high speed rotation of the motor. In addition, the housing is configured as a split type, and the air duct and shell can be directly fixed outside the inner hole column by BMC injection molding, which reduces the processing technology, reduces the burr of the housing. A grounding post is provided on the outside of the stator package for grounding.

