



Coreless Permanent Magnetic Motor

The coreless permanent magnetic motor finds the future of the motor by changing the traditional silicon steel sheet and the winding stator structure with the technologies of free iron core, free shaft and Non magnetic damping permanent magnetic technology

一、 Characteristics of structure

- 1、 the ratio of high power and the torque can be greatly promoted with the technology of axial magnetic field structure.
- 2、 High precision die casting molding and high density polymer are introduced to reduce the copper loss during winding.
- 3、 reducing of iron loss and the driven power are both due to the abandon of the silicon steel sheet stator.

二、 Advantages

- 1、 efficient and power saving: compared to the traditional motors, the coreless permanent magnetic motor may save around 80% when non-loaded. Energy saving can be up to 30% or more in some unbalanced load conditions systematically.
- 2、 simple and tiny framework, only 1/3~2/3 weight of that of the ordinary ones.
- 3、 source saving: compared to the traditional motors, the coreless permanent magnetic motor saves 80% steel, 100% silicon steel sheet and 50% copper at least.
- 4、 wide speed range and easy to adjust. The efficient characteristic can be easily made in the wide range and the accuracy is pretty high.

5、 stability, the temperature of the motor is low and the little ones can run without the electrical fan.

三、 Technical parameters

item	parameters
Speed range	1500r/min ~ 6000r/min
Power ranger	1.1kW ~ 45kW
efficiency	η should be more than 75% when the rated load is 30%~50%, while the rated load should be more than 50% if η is larger than 80%. The rated load point is higher than that of the ordinary ones
Power	≥ 0.98