

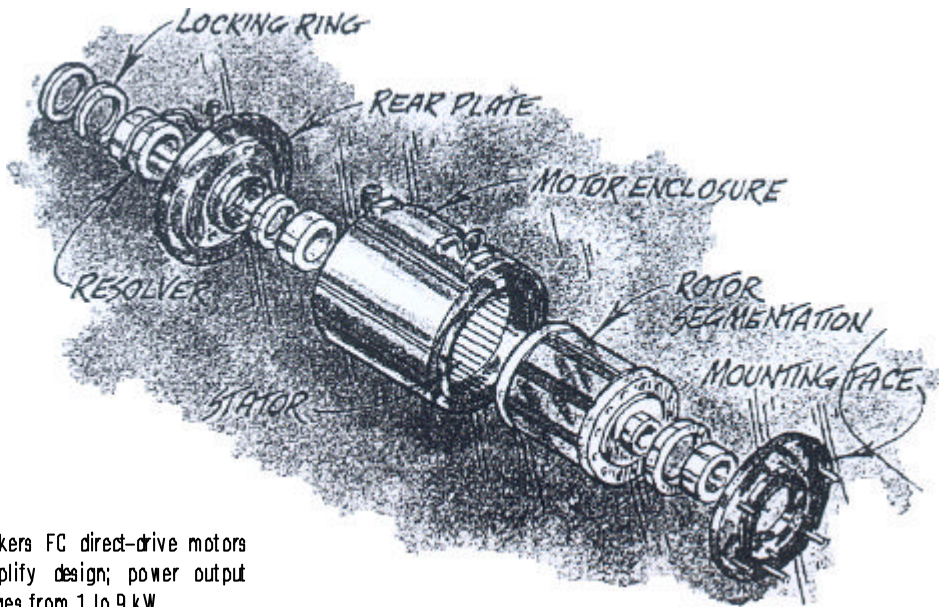
Direct-drive motor

Servo systems typically contain gearboxes, belts, pulleys, and power-transmission shafts--often with right-angle turns. Not all applica-

tions require such complexity, however. A direct-drive solution, based on a line of new permanent magnet brushless servo motors, simplifies servo systems. Three design features explain how:

- Economical ferrite magnets are oriented to provide high flux density.
- A segmented rotor facilitates manufacturing.
- Many poles and armature slots reduce torque harmonics at slow speeds. In addition, the motor's armature is encapsulated in thermally conductive material, allowing a smaller volume.

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Vickers FC direct-drive motors simplify design; power output ranges from 1 to 9 kW.