

## Adaptive ESP Permanent Magnet Motor (PMM)



Vertechs Adaptive ESP Permanent Magnet Motor (PMM) has a compact design with high power density. The power consumption during its operation is significantly lower, it also has a low transportation risk and a higher passthrough DLS. It is compatible with any surface and downhole equipment, without having the need to change the VSD. Standard and low-speed PMMs provide power and torque for both ESP and PCP applications. The PMM has an extremely low operating temperature, which reduces the risk of system damage arising from high temperatures during operation, thereby enhancing its performance and run life. The low idle current of PMM enables light load condition diagnosis and is suitable for high gas applications.

### Features

- Compact design, low risk, enables higher passthrough DLS
- Compatible with any surface & downhole equipment, no need to change the VSD
- Reduces power consumption by 30% - 40%
- Increases downhole motor efficiency up to 90%
- Low idle current, able to diagnose light load condition, and suitable for high gas applications
- Full Torque startup, suitable for sand production and intermittent application
- Low motor operating temperature, longer expected run life
- Smaller cable size reduces the risk of cable damage
- Stabilized spinning and optimized torque design, has minimal impact on seal and pump
- Tape-in / plug-in motor pothead
- Flange / thread connection

### Specifications

Standard Speed PMM		
OD	Max HP (3000 rpm)	Temperature Rating
5.62"	1000HP@100Hz	400°F
4.50"	432HP@100Hz	400°F
3.50"	200HP@100Hz	400°F

Low Speed PMM		
OD	Max HP (300 rpm)	Temperature Rating
4.50"	42HP@40Hz	300°F