Johnson Electric creates custom solutions beginning with our wide range of component technologies

**“Technology Leadership”**
- Fuel economy improvement
- Emissions reduction
- Enhanced engine performance
- Custom engineered solutions

**“The Safe Choice”**
- Field proven technologies
- Rigorous application testing
- Johnson Electric Production System
- Global engineering & manufacturing footprint

**Motion & Control Solutions for Engine Management**

**Electronic Throttle Control**
- High torque
- High vibration resistance
- High temperature range

**Exhaust Gas Recirculation**
- Exceeds Euro 6
- High temperature operation
- High vibration resistance

**Fuel Pumps**
- Fuel pump motors & armatures
- Low vibration
- Compatible with Flexi fuel

**Air Pumps**
- Electric vacuum pumps
- Suspension air pumps
- Secondary air pumps

**Air Control Valves**
- Enhanced fuel economy
- High torque
- Compact design

**Intake Manifold Throttle Valve (IMTV)**
- High power density
- Reliable performance
- High temperature range

**e-VVT Camphaser Actuator**
- Reliable & precise actuation
- Compact size
- Low power consumption

**Turbo Wastegate**
- Dynamic response
- High temperature range
- High vibration resistance

For more information, contact us at sales@johnsonelectric.com
www.johnsonelectric.com