**Technological advantages**

Exceptional performance compared to conventional permanent magnet technologies.

- Accuracy
- High efficiency
- Reliable
- Compact

**Invention overview**

The invention concerns a variable reluctance actuator developed for high-frequency applications. The design was optimized simultaneously taking into consideration the electromagnetic and mechanical functions, and by developing dedicated control electronics. The original structure of the actuator frames reduces the eddy current and Joule losses effects.

**Potential applications**

**Automotive and aeronautics sectors**
- Injection or dosage of machine lubricant, brakes, gearboxes, and high-frequency valve control

**Medical sector**
- Medicine injection and dosage
- Generation of vibrations to mask or offset emitting sources
- Trigger

**Commercial advantages**

- Embedded system
- Weight gain
- Volume gain

**TRL : 5**

Patented invention, available under license