

Electro Magnetic Actuator (EMA)

Features

- Magnetic flux contactless shifting
- Integrated position sensor with proportional control
- Integrated mechanical bi-stable position detent system
- Smart integration of electronic HW

Benefits

- Directly connectable to vehicle ECU
- Compact design optimizes weight and installation space
- Sleeve axial displacement allows quick and precise control
- Actuation times < 100 ms @ 20°C



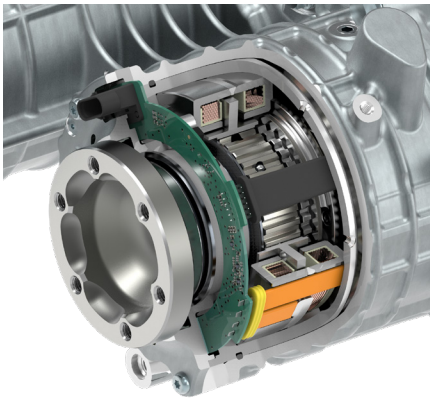
Ideal for high-performance sports car applications.



Electro Magnetic Actuator (EMA)

The Electro Magnetic Actuator (EMA) is designed to be a shifting or disconnection system specifically suited for e-Axle applications. It is a smart, lightweight, and compact system which can replace a traditional synchro system. The EMA is currently in production for the Ferrari SF90 Stradale as a disconnection system for the front electric axle.

Vehicle	High-performance hybrid 4WD
Driveline Layout	Front wheel drive, P4 layout
Product	Integrated electromagnetic smart actuator for disconnecting system
Main Features	Supply voltage: 9V/16V supply current: 30 A max actuation time (neutral to engaged in synchronized conditions): < 100 ms
Future Developments	Potential applications as general decoupling/actuator system, non-automotive transmissions



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Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from SME; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

