



Permanent-magnet synchronous motors

Everybody is talking about environmentally friendly mobility – climate change and dwindling oil reserves trigger a fundamental change in the automotive industry.

Both hybrid and electrical vehicles are currently available on the market, offering a genuine alternative to internal-combustion engines for the foreseeable future. For these applications, Wieland has for a number of years been supplying system components in serial production for electric motors in hybrid vehicles.



For electric drives, the permanent-magnet synchronous motor is the ultimate benchmark. Due to its high level of efficiency and compact design it is used in almost all hybrid powertrains of passenger cars.

Advantages of system components

- compact installation space through small design
- easy, automated contacting of the inductors
- automated, cost-efficient production of the stator
- easy contacting of the power electronics
- versatile and complex geometries possible