## wieland



## 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

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