

# **Europe Spintronic Logic Devices Market By Type (Metal Based Devices and Semiconductor Based Devices) By End User (Industrial Motors, Electric Vehicles, Data Storage, Semiconductor Lasers, Magnetic Tunnel Transistor and Others) By Country, Industry Analysis and Forecast, 2020 - 2026**

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## **Abstracts**

The Europe Spintronic Logic Devices Market would witness market growth of 38.9% CAGR during the forecast period (2020-2026).

The invention of giant magnetoresistance (GMR)-based devices has triggered a paradigm change in the electronics industry, taking new technology areas, such as magneto-electronics, out. GMR is an effect of quantum mechanical magnetoresistance produced when multilayers are composed of alternating layers of ferromagnetic and non-magnetic conductivity. In general, the GMR systems consist of a non-magnetic metal layer between two magnetic metals.

GMR sensors are also used for various applications in the automotive industry, such as rotational speed, angle, and location. New hybrid electric cars, including the Toyota Prius, use integrated power electronics (IPEM) modules to minimize prices, kit size, and interconnections. A GMR point field detector is used directly within the IPEM module for the in-situ current measurement. Therefore, as electric vehicles and hybrid electric vehicles are gradually being introduced, the use of GMR systems is also expected to grow over the projected period.

Spintronic devices deliver increased reliability, increased speed and reduced power consumption. The demand for spintronic logic devices holds significant growth potential worldwide. It is currently in its ever-growing stage. Due to their widespread use in automotive applications, demand for electric two or three-wheelers is increasing. Automotive manufacturers integrate spintronic logic devices into their products to add

extra features and stay ahead of other competitors in the highly competitive industry.

Due to its faster data transmission capabilities and improved storage capacity, Spintronics has been extensively used in data storage devices compared to traditional storage devices. Spintronics-based digital data couplers, which provide high-speed data transfers, are used in multiple applications, thereby driving market growth.

Based on Type, the market is segmented into Metal Based Devices and Semiconductor Based Devices. Metal Based Devices are further segmented into Spin -Transfer Torque Device, Tunnel-Magneto Resistance, Giant-Magneto Resistance and Others.

Semiconductor Based Devices are further bifurcated across Spin Diode and Spin Filter & Spin Field Effect Transistor. Based on End User, the market is segmented into Industrial Motors, Electric Vehicles, Data Storage, Semiconductor Lasers, Magnetic Tunnel Transistor and Others. Based on countries, the market is segmented into Germany, UK, France, Russia, Spain, Italy, and Rest of Europe.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Infineon Technologies AG, MTS Systems Corporation (PCB Piezotronics, Inc.), Kistler Group (Kistler Holding AG), Spectris PLC (HBM), Everspin Technologies, Inc., NVE Corporation, Crocus Technology, Inc., FUTEK Advanced Sensor Technology, Inc., Spin Memory, Inc., Sensor Technology Ltd.

## Scope of the Study

## Market Segmentation:

### By Type

#### Metal Based Devices

Spin -Transfer Torque Device

Tunnel-Magneto Resistance

Giant-Magneto Resistance

Others

#### Semiconductor Based Devices

Spin Diode

## Spin Filter & Spin Field Effect Transistor

### By End User

Industrial Motors

Electric Vehicles

Data Storage

Semiconductor Lasers

Magnetic Tunnel Transistor

Others

### By Country

Germany

UK

France

Russia

Spain

Italy

Rest of Europe

### Companies Profiled

Infineon Technologies AG

MTS Systems Corporation (PCB Piezotronics, Inc.)

Kistler Group (Kistler Holding AG)

Spectris PLC (HBM)

Everspin Technologies, Inc.

NVE Corporation

Crocus Technology, Inc.

FUTEK Advanced Sensor Technology, Inc.

Spin Memory, Inc.

Sensor Technology Ltd.

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