

AUTONOMOUS VEHICLES: FUTURE IS NOW

interface
FORCE MEASUREMENT SOLUTIONS.

Robots and computers control most aspects of travel and mobility. This is the case especially for AV's. Autonomous vehicles are self-driving cars or vehicles, without the guidance from a driver. Every component undergoes the same rigorous testing as human driven vehicles. Sensor technologies are used in AVs to avoid hazards, while providing safe rider experience. Interface is a preferred measurement solutions provider for AVs.

The global autonomous vehicle market reached nearly the size of **\$106 billion USD two years ago**. It is projected that in **2030**, the market will reach the size of over **\$2.3 trillion**.

There are six levels of vehicle automation defined by the SAE AV classification system. Level 0 is no driver automation, Level 5 is full driving automation. Although many researchers, OEMs, and industry experts have different projections for AV market penetration and full adoption, the majority predict Level 5 AVs around 2030. Level 2 and Level 3 are the most popular across the global market of autonomous vehicles, while Level 4 and Level 5 are expected to see greater adoption by 2030.

Interface is a proud solutions provider to engineers and innovators of the growing autonomous vehicle sector. We provide LowProfile™ load cells, torque transducers, and instrumentation for all different types of testing projects.

In 2021, U.S. annual vehicular fatality rate was 42,915. **94% of crashes are due to human error**. AVs have the potential to **reduce crashes by 90%**, potentially saving approximately \$190 billion per year.

Due to the increased safety features of AVs, crashes are less likely to occur, allowing for the reduction of vehicle weight and size, decreasing fuel consumption between 5-23%.

The Asia Pacific region is projected to be the fastest-growing autonomous cars market, by 2030. According to Statista, 73 percent of all cars will have some level of autonomy in the United Kingdom.

