

SMART FACTORIES AND THE ROLE OF INDUSTRIAL IoT

interface
FORCE MEASUREMENT SOLUTIONS.

Industrial IoT (IIoT) integrates Internet of Things technologies into industrial sectors and environments. Industrial applications and equipment, such as machines, devices, and sensors, utilize data through the Internet, thus creating a more operational, productive, and safer working environment. Interface load cells, torque transducers, multi-axis sensors, DAQ, and other instrumentation systems are used in various industrial IoT applications, from smart factory machines to packaging quality control systems.

Industrial IoT profoundly impacts various industries, improving efficiency and reducing costs. Interface's load cells are not just used in designing, prototyping, and testing for different industrial IoT applications; they significantly enhance these processes using precision force, torque and weight measurements.

Our load cells and wireless systems are highly accurate and reliable. They are versatile and come in different customizable sizes and capacities, providing a solution for every need. As the IoT sector continues to evolve in the industrial world, Interface expects to be involved in more innovative applications that can contribute to productivity using measurement devices that are wireless, Bluetooth, and I-O link enabled an connected with digital sensor instrumentation.

Worldwide, the Industrial IoT market is witnessing a rapid adoption of smart manufacturing technologies, revolutionizing the way industries operate and boosting productivity. One of the key drivers of Industrial Internet of Things (IIoT) growth is the increasing focus on Industry 4.0, which aims to create smart factories that are highly automated and connected. IIoT technologies can help to enable this vision by providing real-time data on machine performance, production output, and other key metrics, enabling manufacturers to optimize their operations and reduce downtime.

The Industrial IoT market worldwide is forecasted to witness a significant growth in revenue, with projections indicating a staggering figure of \$326B by 2024.

IIoT is revolutionizing manufacturing with applications in smart factories, predictive maintenance, and process optimization based on data-driven insights from connected machines and sensors. Our load cells and torque transducers enable IIoT robotics and are used on conveyors and equipment across the factory for continuous monitoring and feedback.

