



RFID for Automation & Manufacturing

REIMAGINING AUTOMATION & MANUFACTURING

Manufacturing today is increasingly sophisticated and heavily dependent on automated procedures. At the same time, needs to produce a multitude of configurations arise from customer's side. With this sophistication has come a greater need to monitor products as they go through the production process to achieve efficiencies that lower operating costs. While costs decrease, so too do errors caused by humans as machines are able to produce a higher quota in less time.

INCREASE OPERATIONS EFFICIENCY

HID Global can help you enhance the efficiencies of your operations. By learning more about your automation processes, you can reduce errors along the production line. Reduced errors mean less waste and better control of supplies and inventory. For instance, our RFID tags can be stored with information, which can then be read by machines to make the appropriate decisions or track production status based on the data provided, without line of sight between the sensor and the tag on products or carriers.

More efficient manufacturing leads to a lower rate of yield loss. In addition to keeping track of your inventory and helping you avoid unnecessary losses, RFID tags keep accurate records of the tools used in your manufacturing processes and the maintenance schedules of those tools, optimizing the equipment for a longer life.

For example, automotive manufacturing is a complicated process that can be streamlined through RFID tags. Production may be halted due to lack of supply or errors along the line. As a result, every part must be tracked to optimize efficiency and reduce waste. Once the line is back up and running, each part is quickly returned to its stage and completed. In a day and age where customization is king, production needs to be flexible to meet

quotas. Cars are not often built the same but have custom specs, which requires each station to combine the right parts for the bespoke car it is making.

HID Global will work with you to provide the best solutions for your automation and manufacturing identification needs. With many years of manufacturing experience, we understand your requirements and expectations. We work in close cooperation with system integrators around the world to develop systems that meet your most stringent demands. Whether you need standard or customized tags, we can deliver the products you need with exceptional quality and service. HID Global has over 35 years of expertise in contactless technology development and manufacturing. Users and developers worldwide rely on the product line from HID Global for responsive solutions, fast turnaround, dependable quality, and exceptional performance. Our tags are highly readable and designed to work well with a variety of reader control platforms and architectures. When used with a network of readers, our tags provide real-time accurate information on the parts and tools you use in your manufacturing process. Our own production facilities are ISO9001-2015 certified. Key procedures relating to business and quality systems are continually monitored for ongoing improvement which results in the highest quality of products for customers.



DURABLE TAGS

RFID tags from HID Global are durable enough for the most demanding applications. Whether it is extreme temperatures, harsh chemicals or rough handling, our tags are guaranteed to work and be read quickly to boost speed along the assembly line. HID RFID tags adhere to the standards of ISO 15693 or UHF EPC Class 1 Gen 2 (RAIN® RFID) and can be provided UV-, flame- or radiation resistant and food compatible. Memory capacity may go up to 8 Kilobytes — the maximum specified by ISO/IEC 15693 or more for UHF tags.

EMBEDDABLE TAGS

For use of brand protection and/or automated configuration HID offers custom designed tags to be embedded during manufacturing into goods produced such as filters, tools and cartridges. This allows for contactless configuration of the device where the good is used (printer, drill, medical device, etc.) and prove their authenticity from genuine production.

CONDITION MONITORING

Active BLE Sensor Beacons and advanced BluZone™ analytics software from HID can help to wirelessly monitor the vibration and temperature status of production machinery and provide early alerts of failures to reduce downtime and save maintenance costs.

HANDHELD RFID READERS

While many machines can read RFID tags from a fixed point during the production line, there are often cases where mobile devices are needed to support inventory and maintenance checks. Many manufacturing environments have storage rooms, outdoor applications and other situations that require a handheld RFID reader. TSL handheld RFID readers are appropriately configured to withstand rugged and harsh environments and support a variety of mobile devices or phones to connect to via Bluetooth or USB.

EXAMPLES OF HID GLOBAL RFID PRODUCTS FOR AUTOMATION

							
Product Name	Poly Tag, IN Tag	IronTag	Embeddable RFID/ Brick Tag	High-Temperature Label	InLine Tag	On-Metal labels	TSL 2166
Application	General purpose discs for severe industrial environments, flame resistant and food compatible, ATEX certified	Highly robust compact UHF on-metal tag with flame and high temperature resistance	Embeddable RFID transponders allow manufacturers to integrate HID Global RFID technology seamlessly and hidden into their own products. Brick Tags are Micro-sized transponders for small metal assets.	Laser engravable, flexible UHF tag resisting temperatures up to 446 °F / 230 °C	Robust, all-purpose RAIN® RFID UHF tags mount to any surface material and deliver long read ranges	Printable, flexible labels for on-metal use	Handheld RFID readers for rugged environments support mobile inventory and maintenance use cases

You can find more information on our RFID tags [here](#) or contact: tagsales@hidglobal.com