

# Industry & Logistics



**INDUSTRIAL SMART COMPONENTS  
AND IOT SERVICES**





# Tag quality ensures data integrity

RFID systems are accelerating data collection speed, volume, and accuracy, helping organizations optimize logistics and gain insight for process improvement. However, tag failure can compromise system efficacy.

The breadth of the HID Global portfolio allows you to easily match an RFID tag to your exact requirements. If you need to track it, we can tag it.

## Industry-proven tags

With hundreds of standard configurations and thousands of applications, HID Global delivers tags with proven performance in low frequency (LF), high frequency (HF), and ultrahigh frequency RAIN® RFID (UHF) systems, allowing you to choose the optimal technology for each use case.

HID Global tags are available in a wide selection of standard sizes and shapes. From the Brick Tag that fits discreetly into spaces smaller than a match to the large, ultra-thin InLine Tag® Plate container tag, which accommodates printing, embossing or labels for visual identification. Utilizing advanced RFID technology, HID Global can deliver the perfect solution for your application.

Our RFID engineers have designed these tags with advanced integrated chips that pack ever-growing amounts of data into ever-shrinking forms, significantly expanding logistics, tracking, and reporting capabilities. Large-memory tags from HID Global enable tracking systems to store data off-line on the tag and employ secure coding and encryption techniques for greater data availability.

At the same time, HID Global also offers tags for industrial applications that work with simple, unique standardized identifiers.

## Tags supporting innovative use cases

The patent pending HID Global Trusted Tag® Services offer unique authentication with every tap of an NFC phone to the tag for “proof of presence”, brand protection and other Internet of Things (IoT) applications. All without downloading an app or the need for special RFID readers or additional hardware. Active BEEKS™ BLE beacons with a variety of environmental sensors together with the corresponding Bluzone™ cloud solution enable powerful industrial Internet of Things (IoT) applications.

## A tag for every environment

HID Global designs RFID tags to meet the environmental demands of any application. Some tags are optimized to be embedded into other products or materials thus making the tag invisible and almost immune to mechanical damage.

Rugged RFID tags are designed to withstand the natural elements, from sub-freezing cold temperatures to tropical heat, driving rain to heavy snow, and the persistent barrage of the sun's UV rays.

Harsh-condition RFID tags are resistant to the extremes of industrial processing. Our portfolio includes tags that withstand intense heat, in excess of 430° F (220° C), and bitter cold, to minus-40° F (-40° C) and even liquid Nitrogen for special applications. HID Global rugged and harsh-condition tags are impervious to moisture and chemicals, and can endure mechanical impact, vibration and high-pressure sprays.

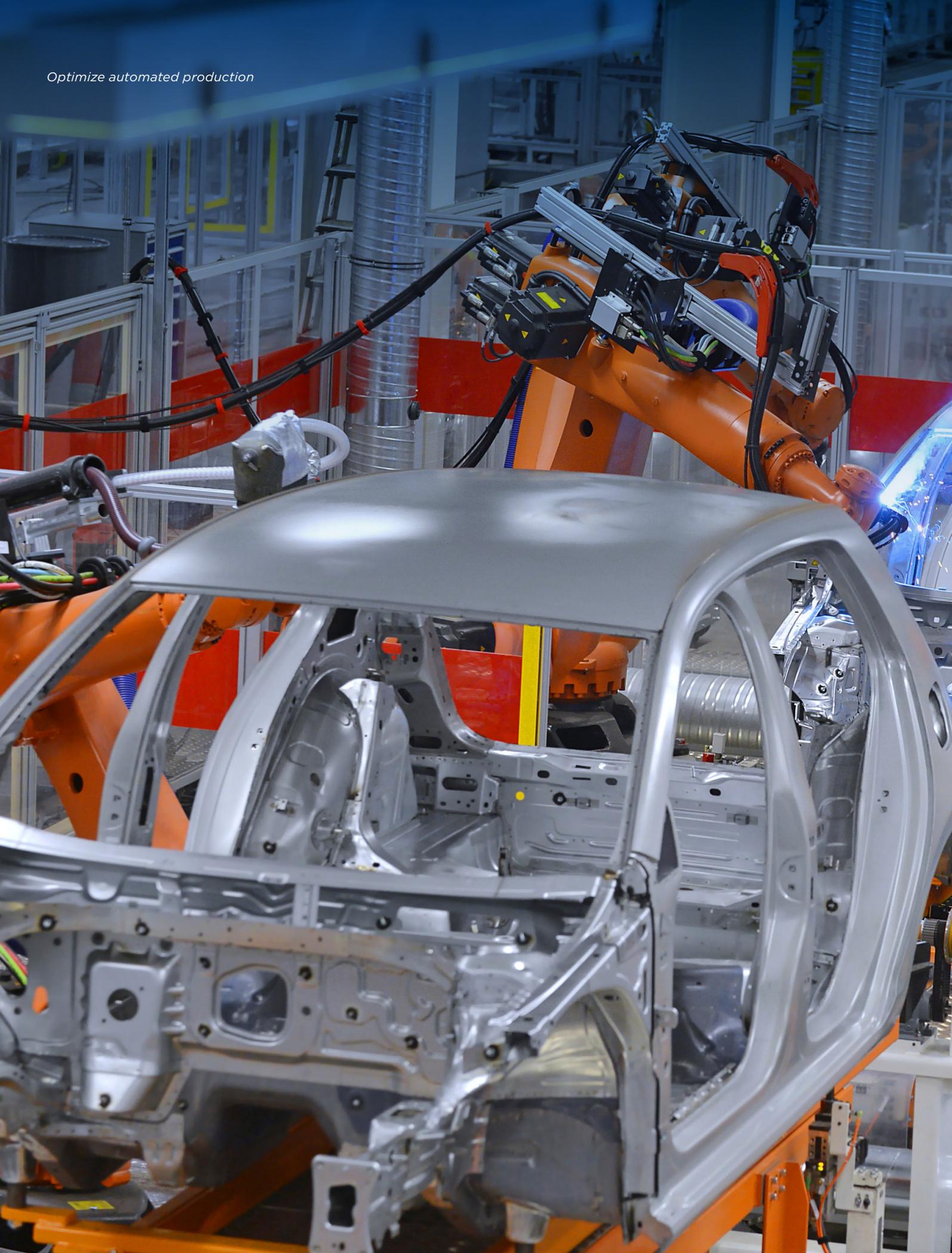
HID Global tags perform well on all surfaces, including metal, glass, plastic or wood, and under all conditions.

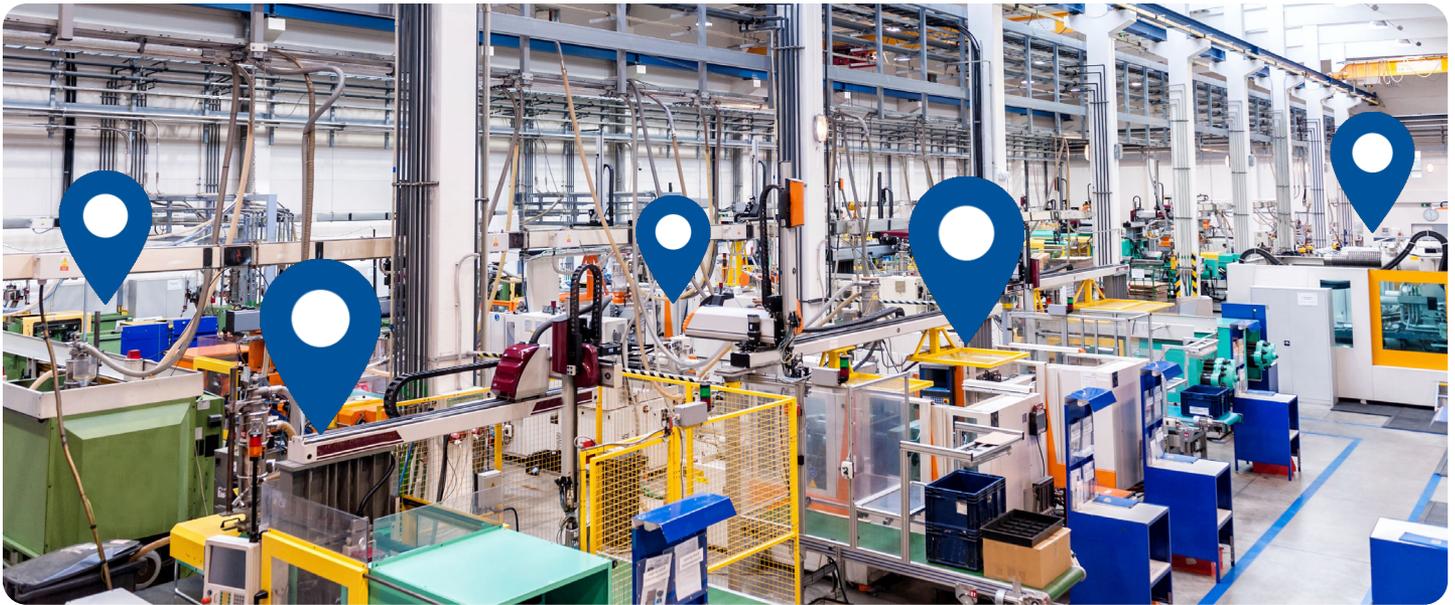
## A TAG FOR EVERY APPLICATION

The HID Global RFID tag portfolio delivers the broadest range of:

- Worldwide operating frequencies
  - LF 125 kHz, 134.2 kHz
  - HF/NFC 13.56 MHz
  - RAIN® RFID (UHF) 860 to 960 MHz
  - Bluetooth Low Energy (BLE)
- Memory capacities, from simple UID up to 64 kilobytes read-write user memory.
- Housings, from cost-effective polyamide, to extreme-durability polyphthalamide.
- Size and mounting options, including tags designed for optimal performance when mounted on metal surfaces.
- Compliance with international standards and protocols, including EPC, ISO, NFC, ATEX etc. (See individual tag family datasheets for specific certifications.)

*Optimize automated production*





Track the position and operating condition of industrial assets via BLE

### A tag custom-designed for your application

If one of our hundreds of tags does not meet your precise needs, HID Global can customize a cost-effective tag to your unique specifications for chip type, dimensions, programming and materials.

Tags need not always be retrofitted; consider embedding RFID technology directly into your product at production time to verify product authenticity or optimize logistics processes. Certain HID Global tags withstand even the heat and pressure of plastic injection, and allow creating RFID enabled plastic containers with no outside visible tag. Others utilize our patented direct bonding technology to enable special form factors, such as tiny ring-shapes, for a pipe or tool to pass through.

Customization also offers the option to embed multiple technologies in a single RFID tag, providing pathways that connect legacy systems with new initiatives.

HID Global has over 45 years of manufacturing experience and over 25 years of expertise developing secure contactless transponder technology. For innovative technology, industry knowledge, field-proven experience, and manufacturing, rely on HID Global.

HID Global's location and condition monitoring services deliver real-time building utilization, easily locate assets and improve production with condition monitoring analytics on equipment. BEEKs™ sensor beacons and BluFi™ BLE to WiFi gateways are equipment agnostic, easy and cost efficient to install.

Embed or Insert						
Tag form factors which are typically embedded or inserted into other things						
	Embeddable RFID	Glass Tag	Brick Tag	Nail Tag	Plug Tag	HID Trusted Tag*
	Embeddable RFID tags or labels - designed for customized enclosure	Compact capsules, resistant to long term immersion	Tiny units embeddable into keyfobs, cables	Glass-fiber nails for wood or pallets	Plastic inserts for permanent mounting to waste and other containers	NFC tags in various forms, providing authentic URLs at every tap
Available	<b>Frequencies</b>	LF, HF, UHF	LF, HF, UHF	LF	LF	HF (NFC)
	<b>Special properties</b>	On metal dual-frequency and other options possible	Food compatible; embeddable in metal or plastic	Extremely small	Hammer into wood	Hard to remove after insertion





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2020-03-26-hid-rfid-industry-logistics-br-en PLT-00773

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