Industrial smart components and IOT services

HID

A TAG FOR EVERY APPLICATION

The HID 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
  - LoRaWAN, Wirepas, Quuppa, GPS, Bluetooth® Low-Energy (LE)
- 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, IECEX, etc. (See individual tag family datasheets for specific certifications.)

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 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 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 tags are available in a wide selection of standard sizes and shapes. From the FIT Tag that fits discreetly into spaces smaller than a match to the large, ultra-thin EXO Slim container tag, which accommodates printing, embossing or labels for visual identification. Utilizing advanced RFID technology, HID 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 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 also offers tags for industrial applications that work with simple, unique standardized identifiers.

TAGS SUPPORTING INNOVATIVE USE CASES

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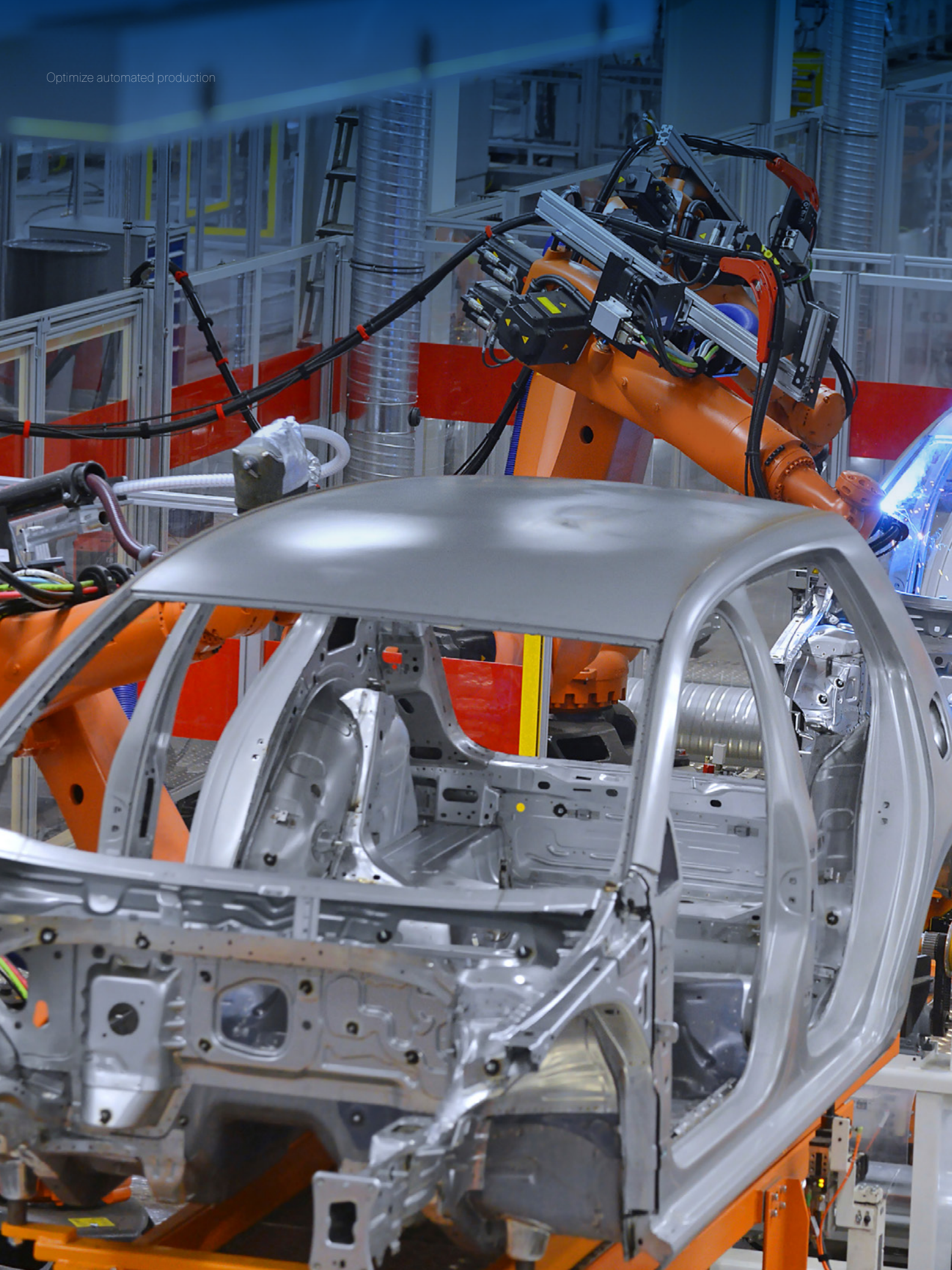
Harsh-condition RFID tags are resistant to the extremes of industrial processing. Our portfolio includes tags that withstand intense heat, in excess of 430° F (220° C), and bitter cold, to minus-40° F (-40° C) and even liquid Nitrogen for special applications. HID rugged and harsh-condition tags are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

HID tags perform well on all surfaces, including metal, glass, plastic or wood, and under all conditions.A tag custom-designed for your application
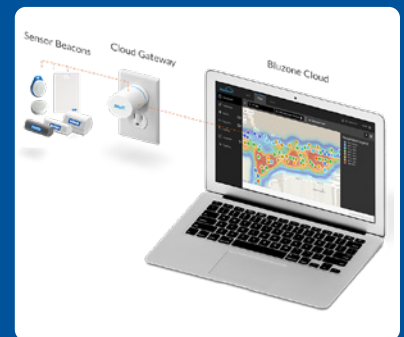
If one of our hundreds of tags does not meet your precise needs, HID can customize a cost-effective tag to your unique specifications for chip type, dimensions, programming and materials.

Track the position and operating condition of industrial assets via Bluetooth® Low-Energy

A TAG CUSTOM-DESIGNED FOR YOUR APPLICATION

If one of our hundreds of tags does not meet your precise needs, HID 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 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 DBond™ 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 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 .

HID '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™ Bluetooth® Low-Energy to WiFi gateways are equipment agnostic, easy and cost efficient to install.

EMBED OR INSERT
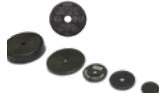Tag form factors which are typically embedded or inserted into other things

	Embeddable RFID	Glass Tag	FIT Tag	Nail Tag	Plug Tag	IQ Labels	HID Trusted Tag®
	Embeddable RFID tags or labels - designed for customized enclosure	Compact capsules, resistant to long term immersion	Tiny units embedable into keyfobs, cables	Glass-fiber nails for wood or pallets	Plastic inserts for permanent mounting to waste and other containers	Small, thin self-adhesive tags that allow discreet or overt placement.	NFC tags in various forms, providing authentic URLs at every tap
Frequencies	LF, HF, UHF	LF, HF	LF, HF, UHF	LF	LF	HF, UHF	HF (NFC)
Special properties	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	Versions for on- or off-metal use. For more label products, explore LUX-IDent offerings.	Form factors: Wet inlay, Seal Tag, ClearDisc, Epoxy keyfob, ISO card

Available

Make industrial laundry processes more efficient

DISCS & MORE
Round or rectangular RFID tags to screw-on, glue or embed almost anywhere

	Poly Tag™	IN Tag™	Logi Tag®	Sentry Tag	World Tag®	Epoxy Tag	Bin Tag
	Extreme-impact resistant discs	Ruggedized RFID discs for severe industrial environments	Micro-sized, thin, cemical and pressure resistant high performance discs	Small footprint, low profile, PCB RFID tags with Exceptional Size-to-Performance Ratio	Cost-effective, general use indoor asset tags	Thin, rigid, surface-printable discs and rectangles	Inserts that screw or embed into waste collection bins
Frequencies	LF, HF	LF, HF, UHF	LF, HF	HF, UHF	LF	LF, HF, UHF	LF, HF, UHF
Special properties	Mount on metal supported	Flame resistant; Food compatible; Mount on metal	Special form factors as button or on-metal tag	Autoclave-resistant – Pro models survive over 1,000 autoclave disinfections		Withstands plastic injection; broadband UHF	Standardized form factor for plastic waste bins

(Available)

SPECIAL FORM FACTORS
Flexible or rigid tags with special properties for the most demanding applications

	SlimFlex™ Tag	Seal Tag	LinTRAK®	EXO Tag	EXO Keg Tag	Adept Tag	Iron Tag®
	Flexible, rugged units with versatile mounting options	Flexible units with built-in tamper evident cable tie	Highly robust linen tags for laundry applications	High performance, general purpose UHF transponders , also available as pro or slim versions	Tags for tracking curved metallic kegs and gas cylinders	High-performance tags optimized for specific industrial purposes	Lightweight and robust high-temperature UHF tags for on metal use
Frequencies	HF, UHF	HF, UHF, Bluetooth® LE	UHF	UHF	HF, UHF	UHF	UHF
Special properties	Broadband; food compatible; flexible	Broadband; food compatible; tamper evident	Versions to embed, sew or glue (ironing)	Broadband; mount on metal; welding option	Mount on metal; welding option	Broadband; mount on metal	Flame Resistant; Food compatible; Mount on metal

(Available)

HID

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