Identification – Asset Tracking
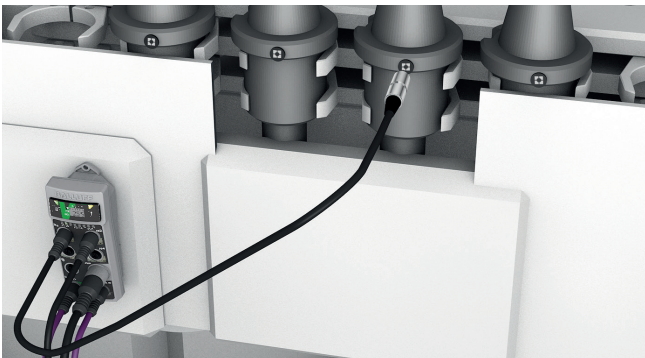
TRACKING ASSETS USING RFID AND BARCODE READERS

Do you need to know the availability of your tool, what condition it is in and it's overall status? If you are looking to reduce equipment failures and increase your overall productivity, we can help. We can show you how RFID and barcode technologies can work for you.

Scanning a tool with integrated RFID tag using an RFID read/write head
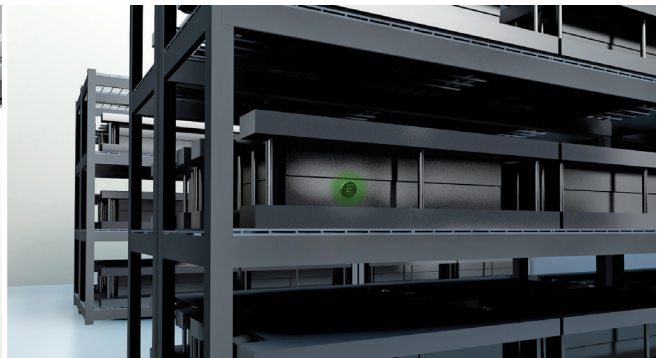
Storing injection molding tools and punch tools with integrated RFID tags

When you need information about the status (e.g. current time of use, setting parameters), storage location or other data for a process tool, an RFID tag glued into the tool will provide it. An RFID read/write head reads the data from the tag and passes it along to the processor unit.

RFID tags are also attached to injection molds and punch tools. These data carriers provide information about the setting parameters as well as data for the use, maintenance and association with the machine in which the tools are used. An RFID reader/writer can read out the data and pass it along to the machine controller. This makes condition monitoring and predictive maintenance possible.

Data carriers designed for tool identification, installed directly in metal

Compact read/write head for simple handling and flexible installation

Portable handheld reader for reading 1D and 2D barcodes

Frequency-dependent processor unit of an RFID system for operating multiple read/write heads or antennas

Managing assets such as tools and molds can place application-specific demands on the characteristics of the RFID components:

Data carriers are available in various form factors, memory capacities and with different material properties. Data carriers for tool identification (Tool ID) are very compact, resistant to common coolants and lubricants, as well as cleaning agents.

Read/write heads are available in a variety of product configurations in just the form factor you need. Asset tracking demands compact form factors, the ability to cover application-specific read distances, as well as ease of handling and mounting flexibility.

Processor units are the interface between the read/write head and host controller level. The availability of so many different variants means you can link to all common fieldbus types.