



Universal RFID PRODUCT LINE



Metalcraft's Universal RFID Tag product line is the closest thing to a one-size-fits-all RFID solution. This revolutionary product line features surface-independent tags with a patented inlay design that delivers excellent read ranges regardless of the surface – metal, plastic, even wood. Custom programming matches the printed barcode information on the label to give you the option of using both tracking technologies. Our Universal RFID Tags are also available with on-site printable options so we can fit any requirement for on-demand printing and asset tracking projects. And like all Metalcraft products, they are built to last. These are the only RFID tags on the market to offer all these features!

The Universal RFID Asset Tag is the one that started it all! This high performing tag boasts 25+ ft read range on metal with a footprint of 2.875" x 1.375". Designed for a rougher environment, the Universal RFID Hard Tag features a modified Universal RFID Asset inlay encased in an impact-resistant, ultrasonically welded polycarbonate housing. The EU Universal RFID Asset Tag is another version of the Universal RFID Asset Tag that is optimized at 868 MHz for use in the ESTI band.

The Universal Mini RFID Tag takes what customers love about the Universal RFID Asset Tag and made it smaller (2.75" x .75") with a thinner profile, while still achieving at 15 ft read range on metal. Because of its thinner profile, the Universal Mini RFID Tag also comes in an onsite printable version as well as a EU version optimized at 868 MHz for use in the ETSI band.

Lastly, the Universal MC and the Universal Micro RFID Tags are the newest members of the Universal RFID product family. The Universal MC RFID Tag features the same low profile as the Universal Mini RFID tag, but in a 2.05" x 1" footprint allowing onsite printing. As its name implies the Universal RFID Micro Tag is the smallest in the product family at 1.875" x .625" while boasting a 9 ft read range on metal.

Products



Universal RFID Asset Tag



Universal Micro RFID Tag



Universal Mini RFID Tag



Universal MC RFID Tag



Universal RFID Hard Tag



EU Universal RFID Asset



Onsite Printable Universal Mini RFID Tag



EU Universal Mini RFID T

Applications

- Asset Tracking
- Work-in-Process
- Tool Tracking

Specifications

Product	Material	Affixing Method	Standard Sizes	Read Range*	Frequency
Universal RFID Asset Tag	Polyester	Permanent, pressure-sensitive adhesive	2.875" x 1.375"	25 ft	915 MHz
Universal Mini RFID Tag	Polyester	Permanent, pressure-sensitive adhesive	2.75" x .75"	15 ft	915 MHz
Universal RFID Hard Tag	Polyester label encased in polycarbonate housing	Permanent, pressure-sensitive adhesive and/or various mechanical fasteners	4.125" x 1.75"	10 ft	915 MHz
Onsite Printable Universal Mini RFID Tag	Thermal transfer printable polyester	Permanent, pressure-sensitive adhesive	2.75" x .75"	15 ft	915 MHz
Universal Micro RFID Tag	Polyester	Permanent, pressure-sensitive adhesive	1.875" x .625"	9 ft	915 MHz
Universal MC RFID Tag	Polyester	Permanent, pressure-sensitive adhesive	2.05" x 1"	12 ft	915 MHz
EU Universal RFID Asset Tag	Polyester	Permanent, pressure-sensitive adhesive	73mm x 35mm	8 meters	865 – 868 MHz
EU Universal Mini RFID Tag	Polyester	Permanent, pressure-sensitive adhesive	70mm x 19mm	2.8 meters	865 – 868 MHz

*Theoretical read ranges based on anechoic chamber tests

Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the labels in the environment in which they will be used.

Chemical Soak Test: NE = This rating measures barcode readability on various labels after being exposed to chemicals listed below for a 6-hour soak. NE = No Effect

Product	Water	Glass Cleaner	Bathroom Cleaner	Alcohol	Acetone	Sodium Hydroxide	Nitric Acid	Hydrochloric Acid	Brake Fluid	Diesel
Universal RFID Asset Tag	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Universal Mini RFID Tag	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Universal RFID Hard Tag	NE	NE	NE	NE	Housing softened	NE	NE	NE	NE	NE
Onsite Printable Universal Mini RFID Tag	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Universal Micro RFID Tag	NE	NE	NE	Adhesive ooze	Delaminated	NE	NE	NE	NE	NE
Universal MC RFID Tag	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EU Universal RFID Asset Tag	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
EU Universal Mini RFID Tag	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Heat Test

Universal RFID Asset Tag	Universal Mini RFID Tag	Universal RFID Hard Tag	Onsite Printable Universal Mini RFID Tag	Universal Micro RFID Tag	Universal MC RFID Tag	EU Universal RFID Asset Tag	EU Universal Mini RFID Tag
200 °F	200 °F	200 °F	200 °F	400 °F	200 °F	200 °F	200 °F

