BARCODE VS RFID
UNDERSTANDING THE DIFFERENCES

**ASSET TRACKING DISTANCE**
- **BARCODE**: Up to 15 ft
- **RFID**: Up to 250 ft

**ASSET TRACKING SPEED**
- **BARCODE**: Tracking rate is one barcode at a time
- **RFID**: Tracking rate can be on tags to 35 RFID labels simultaneously

**MATERIAL RESTRICTIONS**
- **BARCODE**: Barcode works on almost all materials
- **RFID**: RFID technology can be restrictive in metals and sometimes in liquids too

**ASSET TRACKING ACCURACY**
- **BARCODE**: HIGH
- **RFID**: HIGH

**HUMAN INTERVENTION**
- **BARCODE**: You have to print labels frequently and they are labor-intensive.
- **RFID**: Once set-up generally do not require any intervention.

**LEVEL OF INFORMATION**
- **BARCODE**: They just have basic product and manufacturer name.
- **RFID**: Can carry large amount of data - service history, order history, etc.

**SECURITY**
- **BARCODE**: Data are secure than RFID as barcodes can easily be reproduced.
- **RFID**: Highly secure with comprehensive password and encryption features.

**DURABILITY**
- **BARCODE**: Barcodes need to be readable by scanner so are on the outside of the asset, hence can be easily damaged.
- **RFID**: RFID Tags are difficult to damage and can be within an asset so can be read in adverse environments.

**COSTS**
- **BARCODE**: Fundamentally involves barcode labels, printer and scanner, cheaper than RFID.
- **RFID**: RFID is an expensive technology due to chip and wave technology.

Brought to you by: www.comparesoft.com