

CASE STUDY

Automation Solutions Provider METAL TRACKING PILOT MODULE Tracking heavy iron girders



A leading provider of integrated automation solutions needed specialised RFID that could track heavy iron girders. Next-gen RFID that was efficient, reliable and secure provided breakthrough improvements in tracking and retrieving data from metal tags.

Company:

Honeywell India, Pune, India

Facility: At storage site

Challenge:

- Difficulty of conventional RFID systems in reading tag data in the midst of iron.
- Tracking heavy metal girders and bars efficiently and reliably.
- To improve inventory management through efficient long-term data retrieval.
- Providing a permanent record that can be retrieved from iron girders even after their deployment/usage in construction.



Proposed Solution:

- Specialised Metallica™ RFID tags that perform efficiently even when affixed on metal, provided for each metal girder.
- Essen RFID's HandyScanna™ deployed for hand-held tag reading efficiently provides seamless tracking within the storage premises area.
- Real-time audit of metal girders and bars using Essen RFID's Xtenna™ Toolkit. Data on the tag is transmitted to a database for instant verification.
- Lossless transmission of data through metal helps to create a long-term data record from tagged material. The Metallica™ tag stays live even after the girder is used in construction.

Realised Benefits:

- Proven technology that reads tags through metal
- Live inventory tracking
- Reliability of metal-tagging data facilitates automated functioning and security
- Long-term data retrieval from tags affixed on metal provides a historical record of used materials for future reference

TECHNOLOGY

Solution:

EPC Gen2 compliant metal tracking system

Tag Type:

Metallica™ UHF Passive

Reader/Antenna:

HandyScanna™ (Hand-held)

Read Range:

2.5 metres (8 feet)

Method:

Single Tracking via Hand-held Integrated Reader/Antenna modules

Modules: Hand-held

Integration Platform:

RFID Middleware: Xtenna™ Studio

Application: Essen RFID's Astrax Asset Tracking System

Database: SQL Server 2005 Exp. ed.

Tag Manufacturer/Supplier:

Essen RFID

Reader/Antenna Manufacturer:

Essen RFID

Systems Integrator:

Essen RFID

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