


DIGITAL INDUSTRIES

Enhance pharmaceutical manufacturing processes with RTLS


Real-time locating systems (RTLS) offer precise, end-to-end visibility of moving objects in the pharma industry

What’s driving change in the pharmaceutical industry?

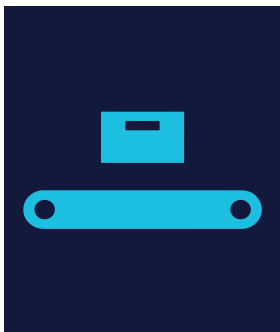
High quality standards




Accelerating processes



Supply chain complexity



Limited resources



What are the challenges pharmaceutical manufacturers face?



Deliver rapidly and at scale



Flexibility to produce diverse drug product portfolios



Quality risks related to tech transfer and scale up



Regulatory compliance and traceability issues



Cybersecurity threats

How does RTLS address industry challenges?

Reduces delays

Prevents production delays by locating materials and equipment swiftly

Minimizes manual processes


Automatic documentation and tracking batches in real-time

Enables paperless manufacturing


Digital documentation reduces paper and search time

How does tracking the real-time location of materials and equipment create efficiency in pharma manufacturing?


Precise location tracking
Active tags pinpoint material locations down to 10 cm, enhancing accuracy




Real-time data access
Tags provide real-time data for quick operator verification



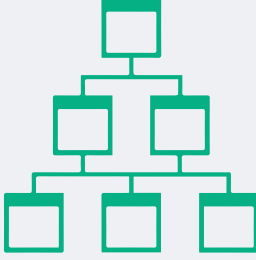
FIFO compliance
Ensure first-in, first-out material usage, reducing waste




Quick equipment retrieval
Reduce search time for equipment in pharmaceutical environment



Process monitoring
Track steps, equipment and storage for process analysis



Integrated reporting
Consolidates data for quality assurance and optimize processes



Make smarter decision with better data.

The future of RTLS in pharmaceutical operations lies in its ability to provide a competitive advantage through quick decision-making with accurate data while supporting sustainable operations through seamless technology integration.