IDENTIFY TO EXCEED

Bring competitiveness to your textile business with a global leader in textile identification
RFID (Radio Frequency Identification) is the wireless use of electromagnetic fields to transfer data through tiny tags (carrying electronically stored information) attached to textiles in order to identify and track them automatically.

An **RFID system** is composed by **tags** (or transponders) that carry the data and a **reading system** that reads the data and sends it to a computer system.

Since a tag contains an unique ID number which gives a precise description of the related textile, RFID enables laundries to track and control textiles and assets anywhere in the industrial process and along the lifecycle. This allows the laundry to know how many textiles are in circulation, the units processed, their precise location, how long they last and why.

### WHICH SECTORS CAN BENEFIT FROM RFID?
- Industrial laundries and laundry textile rental companies
- Hospital and healthcare facilities
- Hotels and hospitality facilities
- Elderly homes and private clinics
- Industrial companies who need to wash their textiles
- Textile producers who want to offer an additional service to their customers

### WHICH KIND OF ASSETS CAN BE TRACED?
- Work wear (uniforms, smocks…)
- Flat linen (bed sheets, pillows, tablecoats…)
- Personal protection equipment
- Private wear (underwear, personal wear)
- Mats and mops

### HOW CAN COSTS BE REDUCED?
- Loss reduction
- More efficiency
- Process automation
- Less personnel costs
- Improved customer service
- More quality
- Inventory reduction
- Less capital
HOW RFID CAN IMPROVE A TYPICAL LAUNDRY CYCLE

Once tags are attached to textiles, they can be identified and tracked automatically in each step of the laundry process with amazing advantages.

SOIL CHECK-IN
All soiled textiles are read through an RFID system to let the laundry know exactly what type, from where and how many textiles have arrived to be washed.

SOIL SORTING
All dirty textiles are sorted with the support of an RFID antenna. This is key to optimize efficiency and reduce labor cost.

TEXTILE USAGE
Through a portable RFID reader, inventory at the customer premises is performed to make sure all stock has been accounted for.

CLEAN CHECK-IN
All clean textiles that arrive at the customer’s warehouse are read by an RFID system to let the customer know exactly how many textiles have arrived from the laundry and which ones.

CLEAN CHECK-OUT
All clean textiles ready to be loaded on the truck are read by an RFID system. Transparency with the customer is improved and billing can be performed based on reliable data.

DATAMARS
A logistics company that handles the movement of textiles between different locations.
Datamars is one of the **leading global suppliers** of high performance unique-identification solutions, specializing in radio frequency identification (RFID) technology.

With **30 years** of innovation and leadership in RFID, Datamars is a **pioneer in electronic textile identification** solutions for the **industrial laundry process**, developing important RFID-based patents & trademarks, inventing the **LaundryChip™** in 1990, and offering today the most complete range of RFID identification solutions.

Datamars is an **ISO 9001 certified company** and represents one of the few **fully-integrated players** in the RFID industry. The **in-house product development and manufacturing**, according to specific customer requirements, is the core capability and differentiating factor.

- **30** years
- **>10,000** installations
- **>40** countries
- **>150 million** textile tags in use
The LaundryChip™ was invented by Datamars in 1990 and it was the first RFID transponder specifically designed for the industrial laundry sector to withstand the harsh environments of washing, ironing, and logistics cycles without being detected and without damaging the textile, well-suited to, but not limited to, flat linen and garment tracking, process automation, product authentication and asset management applications.

UHF LAUNDRYCHIP™ 401

Over the years Datamars has continued to innovate, developing a vast range of UHF LaundryChip™ in different sizes and packages, up to the latest UHF 401 line.

Successfully certified as OEKO-TEX® Standard 100 and MR (Magnetic Resonance) conditional, the UHF LaundryChip™ 401 is our last disruptive transponder generation that encompasses in a very small size (thickness halved and width reduced by 33% vs the previous generation 301) the best mechanical and electrical performances ever.
**READING SYSTEMS**

Datamars has introduced the most innovative RFID reading systems (composed by readers and antennas) in the textile ID market, well-renowned for their accuracy and reliability. Datamars designs and manufactures all systems in-house, fitting perfectly into customers’ existing processes and letting them increase productivity in a sustainable way.

**UHF PORTALS**
Fast and reliable, they are the perfect solution for **bulk scanning on the soil side**. Now also suitable for the clean side with Datamars S-UHF-Portal +.

**UHF CABINETS**
Available either in manual version for light industrial environment or fully automated for heavy duty operations, they can read **1000s of textiles in a few seconds** with an unsurpassed level of accuracy.

**UHF CONVEYOR SYSTEMS**
Designed to **read hanging garments**, they are compatible with major brands of workwear conveyors. Multiple options allow to adapt the reading system to the conveyor speed, spacing between garments or conveyor arrangement.

**UHF TUNNELS**
Perfect to **read stack of textiles after folding**, they can be installed on virtually any conveyor belt with no need to modify existing automation or belt set-up. State-of-the-art electrical performance allows the tunnel to read on-the-fly without stopping the belt.

**UHF TABLE TOPS**
**No-brainer solution for any table-top need**, they are available in a large number of configurations and can be customized to fit any customer situation.

**COMBO SYSTEMS (UHF-HF-LF)**
Combo systems illustrate Datamars long term commitment to support its customers and technologies. 30 years after the first introduction of LF technology, Datamars is still improving its LF systems to help customers transitioning to newer technologies.
Software

Datamars has completely reimagined **reader software** and has developed **Cloudburst**, a **software layer** that runs on the **Impinj Speedway® Revolution readers**. Cloudburst reduces the overall complexity related to RFID implementation while maximizing the reader performances in a laundry environment.

Cloudburst enables laundry managers to **quickly deploy the RFID system**, it comes with pre-configured reading modes that optimize RFID reading performances depending on the reading station. It also allows users to **easily integrate the UHF reader** with no need for software development to control tag reading activity and retrieve EPC codes on standard communication interfaces or directly on the Cloud.

This software is also aimed at **controlling the UHF hardware** when used in combination with HF and LF hardware, to allow a **smooth transition between the different RFID technologies**.
Discover more on www.textile.datamars.com
and follow us on:

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