AcuraGlobal®

The Identification Company

ISO 9001
BUREAU VERITAS
Certification

Logistic: **CASE Mirvi Docks**

RFID Solution which Guarantees Traceability

MIRVI BRASIL

PROJETOS, APLICAÇÕES
E FABRICAÇÃO DE TAMPAS PLÁSTICAS

General Vision

Problem: Wrong cargo and product expedition and low productivity.

Solution: Usage of RFID tags for tracking which allowed a drastic reduction of logistic processes' flaws.

Advantages: Logistics' RFID solution which guarantees traceability.

Benefits: The expedition errors decreased to undetectable levels, the trust level in the ERP increased significatively and the organization and expedition time for cargo decreased from 30 to 40%.

Target: Logistics.

ACURA Global Solution for Expedition Docks Automation

RFID Solution for logistics that guarantees correct delivery of orders to customers

MIRVI BRASIL was created in 1999 to support national and south american with delivery of high quality plastic lids, mainly for the food industry, distributing in all of Brazil the technology of its Betapack matrix. MIRVI BRASIL has an installed capacity for production of 160 million plastic lids / month, currently attending to oil, vinegar and spice markets. MIRVI BRASIL has an exclusive I+D department, Innovation and Development, focused on the needs of every client. For those and many other reasons, MIRVI BRASIL is considered leader in the market of plastic lids for oil, being today the biggest one in Latin America. The next investments will be dedicated to mineral water and soda.

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Ideal products for the solution

500.024 *- M6 UHF Reader*

M6 UHF Reader has a capacity for up to 4 monostatic antennas, TCP/IP communication or WiFi and API availability for programming.
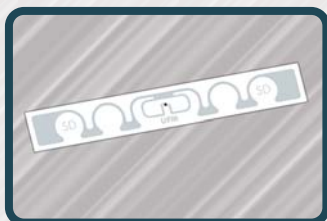
For more information about this product, ***click here***.

500.277 *- Compact Monostatic Antenna*

Directional compact monostatic antenna of circular polarization and elevated protection grade.

For more information about this product, ***click here***.

500.495 *- AcuTag UHF ShortDipole*

The AcuTag UHF ShortDipole is ideal for many environments, as it can work very efficiently in great part of the applied surfaces, except metallic ones. It presents great performance for identification of pallets, packages and items.

For more information about this product, ***click here***.

About the Solution

Proposed Challenge: In the expedition of merchandise, the TOTVS ERP generated a pick list printed with the quantities, codes and adresses for cargo conference in the trucks of each dock. With this list the forklift workers separated the pallets and embarked in the trucks in its respective docks. With the complexity of product codes, raise in demand and pallet's similarity there was a crescent error rate in expedition of products, especially in exporting. Even the rate being less than 0,5% already mean a considerable loss for the exported product's trade cost and the strict delivery deadlines were compromised.

Equipment: In the solution, were used: M5 reader, bistatic UHF antennas; we offer the solution with the new Mercury6 readers, compact monostatic antenna and Shortdipole tags.

Features / Practical improvements: In the expedition of products, there was an integration with the TOTVS ERP which generates a separation list of products with invoice information and list of corresponding tags, printing for the forklift workters so that they can separate the products, and send the middleware where the expedition manager selects the corresponding dock to embark. The middleware activates the selected dock reader every time the dock's ultrasound sensor detects a forklift passing and reads the tag(s) being taken to cargo. If the tag belongs to the pick list generated by the ERP the middleware activates a green light and a confirmation beep so that the forklift worker knows the pallet is authorized and at the same time sends the pallet's data to the ERP to confirm it has embarked; if the tag doesn't belong to the list the middleware activates a blinking red light with a sound alert for 30 seconds so the forklift worker knows the pallet must not be sent and sends the data to the ERP for registering the rror and correcting it. In the end of the process it is possible to check the cargo in the ERP screen or print a report of checking which will indicate the embarked pallets.

Gains / Benefits: The expedition errors decreased to undetectable levels, the trust level in the ERP increased significantly and the organization and expedition time for cargo decreased from 30 to 40%. These exporting errors were the ones which caused the biggest losses.

ACURA has a focus on the market of general identification, with emphasis on RFID (radiofrequency identification), providing RFID Tags (Transponders), Proximity Cards, RFID Readers and Data Collectors.