



# Lifting Equipment Management System

## Introduction

In accordance with the Occupational Health and Safety (OHS) Act, lifting equipment may only be used by authorised personnel and all lifting equipment (machines) classified accordingly must be load tested (i.e. Performance tested) at intervals not exceeding twelve (12) months by a Department of Labour (DOL) registered authority. In addition, companies proactively conduct more routine inspections. In all instances, the need for compliancy demonstrations and records is of paramount importance.

The Synertech Lifting Equipment Management System (LEMS) is a turnkey solution that includes RFID hardware, software and services to efficiently manage the certification, tracking and inspection of lifting equipment from cradle to grave. LEMS is a web-based management and inspection solution that eliminates the paper trail and significantly improves productivity and safety. LEMS complies to all South African legislation and standards for lifting equipment.

With LEMS, safety inspections on all types and sizes of industrial lifting equipment can be conducted.

- Shackles
- Chain, wire rope and synthetic slings
- Plate clamps
- Chain blocks
- Ladders
- Any any other form of lifting equipment defined in the OHS Act

With the LEMS identification and data storage system, managing the compliance of your lifting equipment has never been easier.

## Traxsense

Synertech's Traxsense software platform brings to life innovative, automated monitoring and tracking solutions by providing clients with dashboards and analytics to easily track all assets and to monitor business performance indicators. Smart sensor enabled

assets are transformed into intelligent data sources. These smart assets are connected in real-time which provides organisations with controlled and auditable IOT information. Traxsense not only provides for immediate management decisions, it also harnesses the power of data analytics for business optimisation.



## Business Benefits

- **Enhanced compliance and risk management** – Traxsense conforms to standardised general accounting and auditing standards
- **Improved tracking** – Traxsense accurately tracks and monitors the movement and condition of business assets in real time
- **Increased security** – Traxsense can be configured to provide alerts and alarms as well as links into other features such as closed-circuit television (CCTV) and biometric access control
- **Unrestricted access to data** – The ability to provide completely objective and consistently reliable data that can be accessed by authorised personnel via the web, from anywhere in the world on virtually any digital device on a 24/7 basis
- **Objective and reliable data** – The provision of data that is totally independent of any other source of information due to the automation that eliminates human error and prevents manipulation associated with spreadsheets and manual systems
- **High level of customisation** – Traxsense is quickly and easily customised to meet the exact requirements of virtually any business environment



Inventory Management

## Key Features

- A full featured web-based lifting equipment management system
- Realtime data at your fingertips
- Paperless
- Improved safety
- RFID Ultra High Frequency (UHF) compliant to ICASA and international FCC and ETSI standards



Inspection Compliance

## Components

A combination of tags are utilised to ensure that optimal readability is achieved depending on the item that requires tracking and to be able to withstand the elements.

Numerous RFID tag types are available ranging from combination RFID and barcode tags, cable-tie tags, on-metal tags for metallic assets and rugged tags designed to withstand a high degree of wear and tear associated with the harsh outdoor environment.

Synertech undergoes vigorous testing to ensure that RFID tags selected are the best possible fit for the item without affecting operational efficiency.

The system can be expanded with fixed or a hand-held readers that collect data of item movement and use, the information of which can then be passed on to the main management system for reporting.

## After-Sales Service

- **Warranty** – All systems are backed by a 12-month warranty on materials and workmanship commencing from date of delivery
- **Maintenance and support** - A range of technical support and maintenance options are available based on formal service level agreements

- **Training** - Various training options are available ranging from comprehensive classroom training to on-the job training. All systems are provided with training documentation

## Summary

Designed, developed and implemented by Synertech, a proudly South African company with nearly two decades of success at the forefront of supplying innovative RFID technological solutions to clients across a broad range of industry sectors.