

# 智能叉车管理系统

## Teknect Truck Fleet Management System

### 一、概述 Introductions

对企业管理者来说,获得叉车及其操作员准确的实时信息能够提升叉车安全管理和操作效率。然而大多数管理者获得的信息都是随机抽取的,杂乱的数据;同时叉车作为特种安全设备,如果疏于管理将产生巨大的风险。

智能叉车管理系统是来自苏州易信安工业技术有限公司的强大无线数据管理解决方案,该解决方案能够通过一个友好的界面向决策者提供全国乃至全球范围内本企业的叉车和操作员的实时准确信息,如意外事件记录、叉车利用率、作业效能和维护管理等。

管理者可以通过笔记本电脑或其它移动设备来获取这些信息,并且可以将这些信息形成报表。于是,管理者可以依据这些信息发现问题并作出更有效的决策。

Managers and supervisors understand access to intact, real time information is critical to lift the efficiency and effectiveness of operations. In fact most of them are forced to catch the data they have: randomly collected and difficultly interpreted- often stash in binders and reports- that never meaningful views of situation and make it difficult to decide what to do first.

With Ejsut Truck Fleet Management System, the wireless fleet management system from Ejsut Engineering, users save time and money by turning real time and historic data into organized, prioritized and actionable information that flags problems and opportunities as they occur.

Ejust System is the one solution that provides everything from compliance and meaningful impact reporting to truck utilization data across a full line of trucks.

### 二、智能叉车管理系统主要功能 Ejust System Major Functions

该系统提供五大关键功能,帮助管理层轻松地降低叉车的运作成本及提高整体的工作

效率。

The system provides 5 key functions to help managers to reduce forklift truck operation cost and improve their efficiency.

## (1) 安全启动 Authorized Operating:

- 当驾驶员扭动叉车启动钥匙后,驾驶员需要输入他的个人专用密码或通过扫描专用的访问卡后,叉车功能才开始处于接通状态。

When an operator keys on a truck, s/he have to input the personal ID number or read his personal RFID card, and then power supply of the truck is connected.

- 叉车功能接通后,屏幕(可选项)会自动弹出安全检查菜单,驾驶员对每项安全检查作出确认,“可以”或“不可以”。当所有调查项目都通过“可以”键确认后,叉车才真正可以开始运作。另外,系统会自动记录每天或每次的检查,方便日后有需要时的查阅。同时还实现“无纸张化”的安全检查,因为采用传统的“表格式-纸张”安全检查表,容易掉失或损坏,难于保存管理。

While truck enabled, a truck-mounted display (optional) shows daily checklist simultaneously, and the operator have to confirm each check point with expression of Yes/No. The truck is ready to be operated, after every check point is qualified. The system automatically records check results, in order to easy retrieve records in future.

- 管理层可以通过系统设定每一位驾驶员可使用该叉车的年限,假如,驾驶员“甲”给他设定的期限到 12 月 31 日到期时,在 1 月 1 日时,该驾驶员已经不能启动这台叉车。主要是避免非受任命的驾驶员使用该叉车而导致不必要的意外,造成不必要的麻烦。

Managers are able to set each operator's access time period, for example operator A's access time end is Dec 31, so this operator can not use this truck in coming Jan 1.



## (2) 意外事件记录: Accident Records

- 智能叉车管理系统会自动不间断地监控叉车的运作情况。

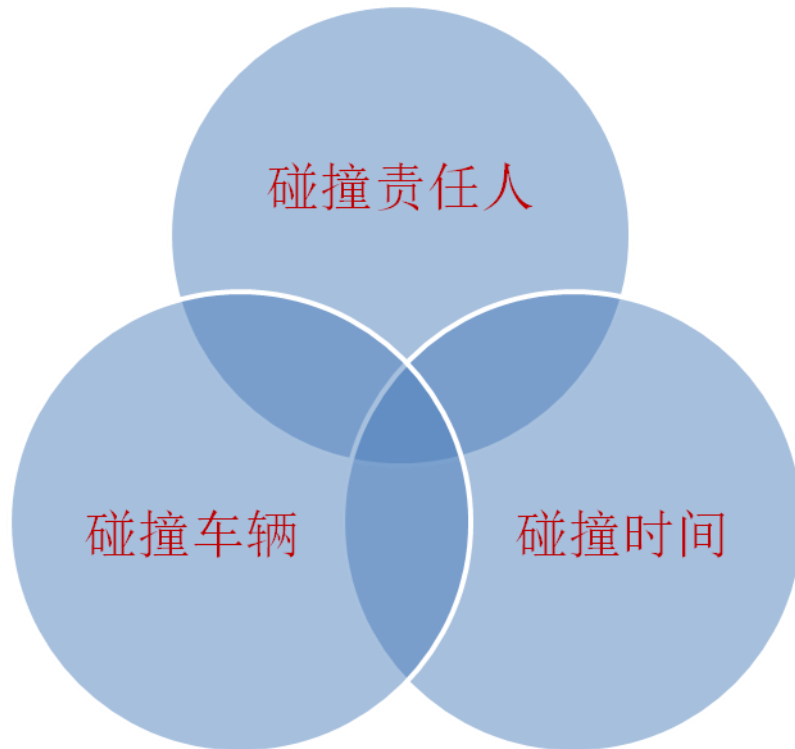
The system records truck status continuously

- 当发生意外碰撞时，系统会自动将事件完整的记录，包括驾驶员的编号、意外发生地址。管理层可以从后台终端查看有关事故的一切资料。

The system records intact event data, such operator ID and time when impact occurs. Managers are able to read all data of each impact event via hand set or personal computer

- 通过系统的监控记录，有效控制驾驶员使用叉车不规范行为，避免货物的耗损及货架的损毁。有效地控制运作成本，同时也降低叉车的维护成本。

It is positive to curb operators improper behaviors via system monitor, to avoid goods and rack damages.



### (3) 优化效率: Efficiency and Utilization

- 通过管理系统的报告，管理层可以有效地分析每个驾驶员的生产能力/工作效率、叉车实际的利用率及一些低效率的运作过程。

Managers are able to know each operators working load and truck utilization.

- 管理层可以利用这些参数，分析能满足实际工作工况下，实际所需要的叉车数量。

从而调整叉车准确的数量或调整叉车的实际应用工况。

Managers are able to decide required equipment quantity via those objective data or reassign truck fleet into real applications confidently

### (4) 保养间距: Maintenance Period

- 管理系统通过叉车的实际工作小时，从而设定保养时间的间距，比传统采用按日历时间安排保养的模式更为有效、准确。

The system records real working time of trucks and it is simple to set maintenance period effectively and efficiently.

- 系统设定保养间距，具备提醒功能，不会因工作繁忙而忘记执行保养，导致不必要的零配件更换费用等。

The system has alert function to remind due or coming maintenance jobs, and managers can arrange their maintenances timely.

- 管理系统完全可以满足保养部门规定的保养间距要求-简单、高效。

The system helps maintenance managers to control and optimize their maintenance activities easily and efficiently



## (5) 管理监控:

- 叉车及驾驶员的实际工作状况，管理层完全可以通过后台系统，得到真实的情况，有效管理，节省不必要的浪费，提供生产效率。

Managers are able to know real time work status of every truck and operator, and record their historical data by using the system.

- 实时监控叉车的电量和油量，提醒驾驶员及时充电、加油，保证叉车的正常工作

The system monitors electricity or fuel status of each truck, and remind operators to recharge or refuel trucks properly

## 三、智能叉车管理系统的优势 Ejust System Strengths

该系统的优势可以体现在以下六个方面：服从性、碰撞、作业效率、利用率、能源和维修。它给管理者提供了信息，从而使得他们能够迅速、准确地采取相应措施。

The **key performance factors** vital to their success are **Compliance, Impacts, Utilization, Productivity, Energy and Service** greatly impact their day-to-day operations.

### 1. 服从性 **Compliance:**

保证车辆的服从性，提高安全性。操作叉车时需身份验证。保证叉车只有通过检查后才能运行。

Assure that operators only use truck types for which they are certified  
Customize electronic inspection checklist to ensure safe equipment and comply with OSHA regulations  
Know that only trucks passing inspection are in service

## 2. 碰撞 Impacts:

追究操作员的责任，减少损坏。通过碰撞检测减少争论和车辆滥用现象。及时获得碰撞和其它警报的信息。

Reduce argument and truck abuse with reliable Impulse impact detection  
Gain immediate email notification of impacts and other alerts  
Acknowledge impact alarms with comments that document the situation

## 3. 利用率 Utilization:

使得车队数量大小和分配处于最优化的状态。记录设备的实时状态。

View the status of your equipment in real-time: logged-on, logged-off or in maintenance  
Log actual truck hours and record login, idle, hydraulic and travel times

## 4. 作业效率 Productivity:

提高操作员的效率。记录操作员的工作时间。保证操作员操作对应资格认证的叉车类型。

Compare operator travel/ lift time per hour to other operators  
Track how effectively your operators complete inspection checklists

## 5. 能源 Energy:

提高车辆能源监测的清晰度。可以实时检测电池的充、放电情况。

Review battery-change time by operator and the entire fleet  
Identify early battery changes and short-charge cycles

## 6. 维修 Service:

保证车辆处于最高的运行条件。通过有计划的维护保证设备处于最佳的工作状态。查看当前和历史时间记录。

Schedule timely Plan Maintenance based on accurate hour readings  
Automatically notify your service department of upcoming Plan Maintenance

## 四、智能系统结构 System Topology

该智能系统由传感器、控制模块和软件系统组成。

The system is consisted of sensors, control modules and service software with internet access- GPRS module.

