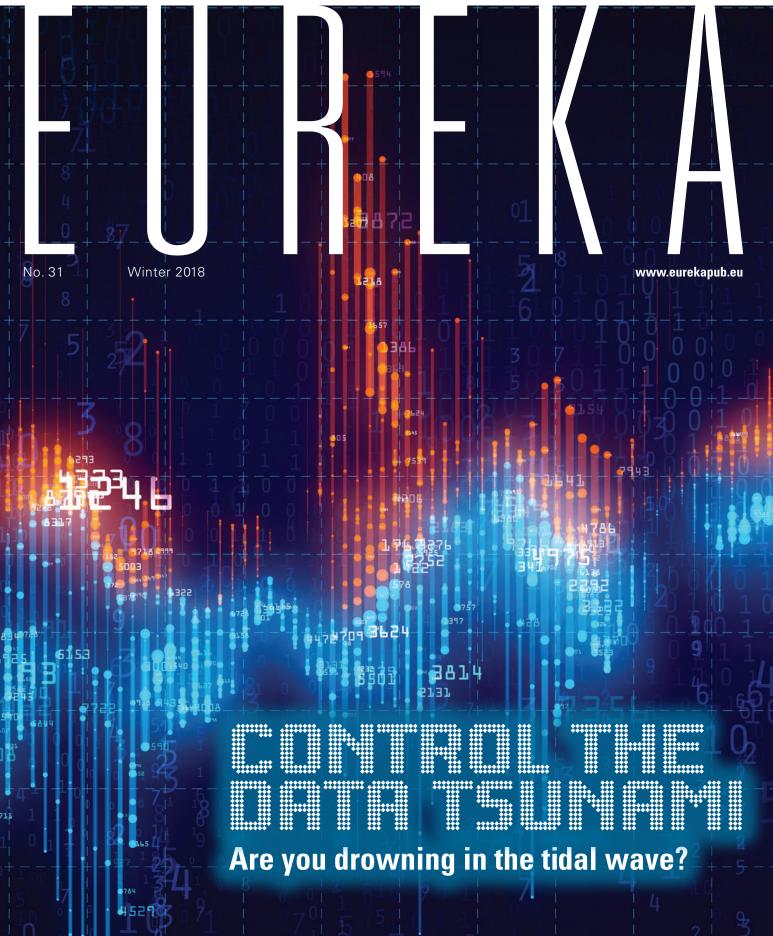
#### The Magazine for the materials handling professional



#### IN THIS ISSUE

#### **Ten top racking tips** Don't limit your warehouse productivity.

# The big machine behind the small parts

What it takes to maintain availability and uptime.

#### Lift yourself to the next level The new ISO standard.

# EUREKA IN THIS EDITION

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For issue 31 we have chosen some subjects which reflect the increasing complexities facing materials handling professionals today. Stay with us and we will help you make sense of it all.

What could be more complicated than dealing with the huge amount of data generated in supply chains? Exploring Industry 4.0 and other databased advances, Ruari McCallion advises on gathering data and - more importantly - making best use of it.

Planning the layout, design and specification of pallet racking in a warehouse is a science in its own right. Mistakes made at the outset may limit your operation's efficiency and productivity for many years to come. Mark Nicholson seeks expert advice and distils it into ten top tips.

While some dread the seemingly complex organisational challenge of health and safety regulation, others enthusiastically go beyond merely complying with the law. Gay Sutton looks at the new international H&S standard's approach to improving your business and its performance.

One of many complicating problems for lift truck fleet managers is what to do when a truck is out of action and the necessary replacement part is unavailable. Gian Schiava explains how the best parts suppliers can keep your business moving.

Eureka welcomes feedback on its articles. What advice do you find most useful? Is there another subject you would like us to cover? Do you have a story for us to investigate? You can email comment@eurekapub.eu or message us via our website www.eurekapub.eu



Monica Escutia Commissioning Editor

based in the Netherlands.



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#### 04 Control the data tsunami



or spend years regretting it.

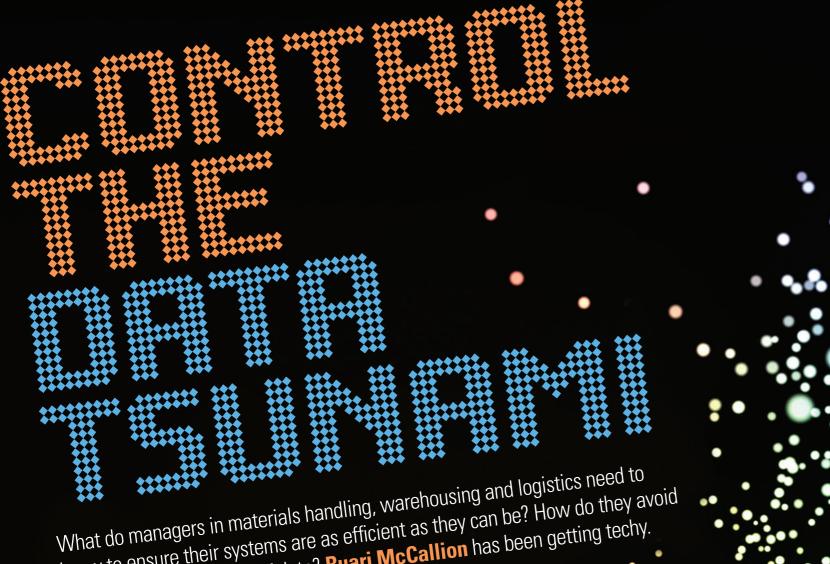
## 14 The big machine

### next level

The new global health and safety go about it... and how does it benefit your business?



02



know to ensure their systems are as efficient as they can be? How do they avoid drowning in a tidal wave of data? **Ruari McCallion** has been getting techy.

#### WELCOME TO INDUSTRY 4.0

Getting information is one thing; getting useful information is another. 'Industry 4.0', the phrase that seems to be everywhere, is founded on data. It is not just 'smart factories' that need and have to deal with data: warehouse management, logistics and materials handling are very much affected too.

The main goal of Industry 4.0 in supply chain management is to foster the intelligent networking of products and processes along the value chain. It means engaging the Internet of Things (IoT), other emerging technologies (such as blockchain) and advanced data enabled by AI (artificial intelligence). With rapid advancements in analytics and

machine learning (ML), companies have the power to actively examine transactional data in near realtime and use the insights derived to plug gaps and remedy revenue losses. With increasing complexity, materials handling functions cannot be handled using established planning and control practices.

Augmented reality devices improve picking efficiency.

#### **OPPORTUNITIES AND CHALLENGES**

Industry 4.0 technologies increase transparency, which means that performance across the entire value chain including that of partners and suppliers – is becoming more visible. While decision-making will be more collaborative and efficient, machines are being enabled to make decisions and perform learning activities autonomously, based on man-made algorithms.

The technological organisation of logistics will change with the implementation of BI technologies, smartphone apps, AIDC and RFID technologies, and the miniaturisation of electronics.

A core task of 'smart' logistics and supply chain management is adding the right level of autonomy and intelligence to make it more efficient, effective, connected, agile and flexible. The right balance must be struck between semi-autonomous systems and human involvement, including 'cobot' working, automation and planning.

The booming availability of data is itself a challenge. From RFID to HMIs, through machinemounted lubrication sensors, every little connector is

either already equipped or capable of being equipped to provide data. How do we identify and discriminate between that which is vital, that which is important, that which is merely interesting and that which is clutter? How do we make best use of what really matters?

#### **TIME TO START AGAIN?**

At this point, you might expect a discussion of the investments that simply must be made, right away, to avoid your company's obliteration. While it's fair to acknowledge that some investment in systems will be needed, a lot of hardware is already in place - like the sensors, RFID systems and connectors mentioned above; as well as automated conveyors and AGVs (automated guided vehicles).

There is no need to rip everything out and start again. Those sensors and automatic aids are all collecting data on location, machine capacity and condition, availability and progress, on goods' location, source and destination, and so on. But the average warehouse or logistics operation may not be capturing it. They may be asking why they would need to, when things are going along pretty fine right now as they are.

"Universal access to the internet, changing consumer preferences, new business models, and a wholesale reinvention of retail stores are changing the industry," says Guy Courtin, GT Nexus Vice President, Industry Solution and Strategy, Retail. He points out that legacy warehouse management systems were built to handle the traditional linear movement of goods in the supply chain.

"They manage processes within the four walls of a warehouse, receive inventory, and facilitate its distribution to stores. Within that scope, most legacy systems get the job done."

#### **2025 VISION**

But that is not good enough for the future. By 2025, the smart factory will be a reality, actively integrating humans and machines in combined cyber systems. Logistics and warehouse management must adopt the same technologies, so that value gained within smart factories will not be lost in the spaces outside their walls.

Guy Courtin, Vice President at GT Nexus.

Performance and speed are crucial, but so is quality – and the ability to handle multi-channel fulfilment demands, both now and in the future.



Industry 4.0 technology unlocks and shares the information collected by sensors, RFID, tags, inspection equipment and so on. Machines equipped with Al use on-board sensor intelligence combined with better connectivity to enable sensors to trigger actions based on what they 'see'. Automated systems can decide, themselves, on appropriate changes or responses to, for example, product line changes on a conveyor, thus enabling accommodation of smaller batch sizes.

#### MAKE YOUR DATA USABLE

But all of this depends on converting the data into a useful form. Data analytics covers the qualitative and quantitative techniques and processes used to enhance productivity and business gain. Data is extracted and categorised to identify and analyse behaviour and patterns. It's ultimately a software solution, which may well be integrated into an organisation's ERP (enterprise resource planning) system. Is it worth it?

Today's supply chain is a complex network of many different stakeholders. While consumers are overwhelmingly concerned with the price and speed of delivery, logistics managers and materials handling professionals are having to deal with additional complexity and cost in the warehouse. Higher order volumes, more inventory touches, increased velocity and rising pay rates make the job of order fulfilment more difficult. The response has been heavy customisation of legacy software, and asking more of the personnel, but outdated systems will inevitably struggle.

"Warehouse management software must address three distinct areas of need: facilities, orders and labour," Guy Courtin says. According to Statista,



around 1.66 billion people made online purchases in 2017 and that number is expected to rise by about 30%, to 2.14 billion, by 2021

#### **DIGITISE YOUR SUPPLY CHAIN**

There is no 'quick fix' to transform an entire supply chain towards a more connected and efficient model. However, in a recent study by Pricewaterhouse Coopers (PwC) on the rise of Industry 4.0, a third of companies surveyed had already started to digitise their supply chains and 72% of respondents expected to do so in the next five years.

Essentra Components invested £150.000 in TW Pick and Pack and warehouse management software to drive picking and delivery accuracy, giving employees better access to warehouse activity data and management information. The company is planning to introduce improved location management to reduce the delay between available and picked product, and accurately track stock.

"We have seen an increase in near real-time data that logistics providers collect through various sources, such as sensors, smartphones and B2B (businessto-business) data exchanges," says Renuka Pahuja, Manager at The Smart Cube, a global professional services company that specialises in procurement,

analytics and research. It has offices in India, the UK, Romania, Switzerland and the USA. "Logistics companies are leveraging Big Data analytics to generate insights and make better strategic and realtime decisions to gain competitive advantage."

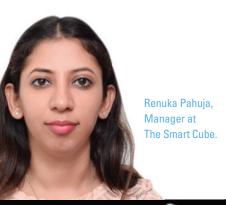
Data sources used by Smart Cube to provide intelligence to clients include: weblogs, which give insights into customer shopping patterns; trailer tags; pallet/case/SKU tags; electronic on-board recorders; mobile devices; and even social media platforms.

#### **ARE YOU READY FOR THIS?**

"Data capture systems provide real-time visibility into warehouse processes, including quality check imaging solutions, barcode scanning and product dimensioning systems," Renuka Pahuja continues. In this new world, wearable tech devices assist in order fulfilment, and augmented reality and voice devices help increase picking efficiency and order accuracy, while robots and AGVs streamline palletising, depalletising, picking and packing operations.

New-generation warehouse and supply chain management is about using flexible, smart supply chain decisions, enabled by the human, organisational and technological components of Industry 4.0 and logistics 4.0. These are needed to make the difference in gaining competitive benefits, and even simply to survive in a hyper-connected age. Performance and speed are crucial, but so is quality - and the ability to handle multi-channel fulfilment demands, both now and in the future.

#### Article feedback is welcome: editor@eurekapub.eu



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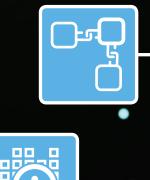
#### Industry 4.0

The 'Fourth Industrial Revolution', which is based on digitisation. (The First was steam- and water-powered: the Second was electricity: the Third was computers and automation.)



#### Internet of Things (IoT)

Online connection of machinery, equipment and sensors, such as energy meters.



#### Blockchain

Technology that allows digital information to be distributed but not copied; Google Docs are an example. Blockchain technology facilitates and can host 'a single version of the truth' in businesses. It is claimed to be the backbone of a 'new type of internet'



Defined by Oracle, the software giant, as "larger, more complex data sets, especially from new sources"









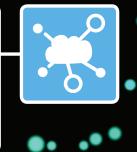


#### **Smart factory**

'Cyber-physical systems', in which real objects and virtual processes are interlinked

(Source: the High-Speed Sustainable Manufacturing Institute

.





#### AI (artificial intelligence) and machine learning (ML)

An area of computer science emphasising the creation of intelligent machines that work and react like humans. Software design, programming and application enable machines to learn from their environment and from their own experience, to plan and to solve problems. Speech recognition is an example of Al.

#### **Analytics**

Qualitative and quantitative techniques and processes used to enhance productivity and business gain.



# TENTOP TENTOP TENTOP TENTOP TENTOP

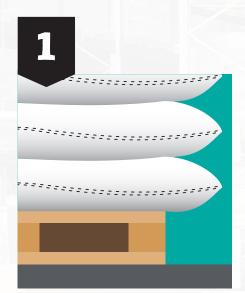
When planning the specification and layout of pallet racking, there is huge scope for bad decisions which will limit your warehouse operation's productivity. To help Eureka readers avoid this, Mark Nicholson has asked a storage systems expert to point out some of the most common errors.

As Project Sales Director for UK-based warehouse solution specialist SEC Storage, Gary Kirk regularly advises on existing or planned pallet rack layouts. The following top ten tips summarise his advice on mistakes which he sees repeated time after time



sec storage

# TIPS



#### **ALLOW FOR OVERHANGS**

"Boxed products will usually sit within the footprint of the pallet, but bagged goods like sugar, other raw foodstuffs and cement may overhang and lean," says Gary.

The racking's beam length, otherwise known as its clear entry or bay width, is the distance between each upright. It tells you what total width of stored items will fit into each racking space. If you specify it only according to pallet widths, it will not be wide enough for overhanging loads.

Standard beam lengths can be reduced a little when using narrower pallets, to increase the number of pallet spaces, but this is not permissible in very high racking.

#### MATCH YOUR RACKING **AND LIFT TRUCK**

 $\times$ 

2

"Occasionally we see aisles which are too narrow for the forklift. More commonly, the aisle is too wide – which means the warehouse space is being used inefficiently.

You should get your forklift truck and racking suppliers together to tailor a solution that fits perfectly. Trucks must be able to reach into the racking's full depth and lift to the top level, with enough residual capacity for your typical loads.

#### MONITOR **AND REVIEW**

3

"What worked for your warehouse operation ten years ago may not work now. You should implement a continuous improvement process and consider options for reconfiguration."

For example, one SEC Storage client using a palletin-pallet-out approach for its retail stores found its needs were substantially different ten years later. With the advent of e-commerce, click & collect and more SKUs (stock keeping units), it became more of a pick-and-pack operation - for which its existing racking was inefficient.

Keep an eye on trends in the market and in your business. It's also worth building a bit of extra capacity into your racking plan, to allow for company growth.



"We often find people have bought over-specified racking, capable of carrying much more weight than will ever be needed. This is especially common when buying used systems and it's a waste of money."

The weight a pair of beams can carry is known as the Universally Distributed Load (UDL) or Safe Working Load (SWL), which is determined by the beam capacity. The heavier the beam capacity, the more the beam  $\ensuremath{\mathsf{costs}}\xspace - \ensuremath{\mathsf{so}}\xspace$  work out what you really need. On the other hand, under-specification of beam duty is dangerous. Overloading deflects and weakens the racking, and in time may lead to a disastrous collapse.

When considering maximum weights, don't forget to include the weight of the pallet itself.

#### **MAKE LOAD LIMITS CLEAR**

SPLIT PICKS 300Kg PER LEVE

BULK PICKS 600Kg PER LEVE

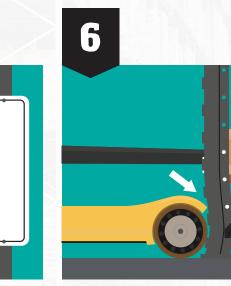
AX 7200Kg BAY LOAI

"If the lift truck operators don't know how much weight can be safely loaded onto the racking, they may exceed the limit. Clear load notices should be placed throughout the warehouse."

In high racking, the load notice will specify different weight limits for each height zone. In any case, if there is a large variation in in the weights of stored items, it makes sense to place the heavier loads at the bottom.

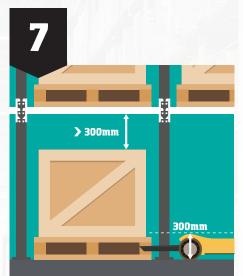


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"For systems where forklift trucks interact more closely with the racks, such as drive-in and double-deep racking, think about extra driver training and/ or racking protection."

In particular, operators will often hit the base of an upright with a reach truck leg. This can cause expensive damage or, worse still, bring the racks and their loads tumbling dowr



#### **RAISE YOUR LOWEST BEAM**

"When lifting goods out of racking from floor level in a reach along the building's length truck environment, remember that you will need a bit of extra space above the pallet. This is so the pallet load can be raised up and over the truck's reach leg without hitting the beam above.

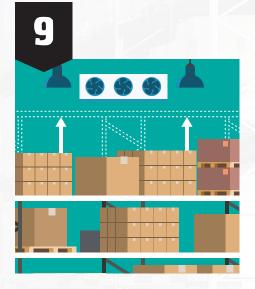
It means that the distance between the ground and the first beam must be at least 300 mm more than that between the other beams in the bay. Alternatively, an extra beam can be placed about 300 mm above the floor - but that adds significantly to the cost.

#### **USE YOUR BUILDING'S LENGTH**

"A small number of long rows makes more efficient use of space than a larger number of short rows across its width."

f necessary, you can break up long rows with cross-aisles to give workers a choice of routes. For order picking, you should plan optimum picking paths to minimise travel distances. Keep all rows in the same direction and try to avoid having any aisles that serve just one row of racking.

It's important to use your building dimensions wisely, to maximise horizontal and vertical storage density and create the layout that works best for your space and operation.



#### **USE YOUR BUILDING'S HEIGHT**

"Before thinking of extending your warehouse to increase its floor space, or even moving to larger premises, make sure you are fully utilising the cube, or its 'vertical space'.'

If your existing racking doesn't reach to the ceiling, there may be scope for extending it upwards or installing a new and higher system. It can be profiled to match the roof shape, so full use is made of the space available. You may have to invest in specialised materials handling equipment to go with it, but it could well be the most cost-effective option for expansion.

Trucks must be able to reach into the racking's full depth and lift to the top level. **LEAVE SPACE** FOR RECEIVING **AND SHIPPING** 

RECEIVIN

SHIPPING

10

"Activities in the receiving area need plenty of space if they are to be carried out efficiently. Any inefficiencies or errors there will affect the whole warehouse operation, creating a bottleneck. Make sure shipping and receiving areas are well separated, to prevent mix-ups."

As well has holding newly arrived stock, the receiving area is used for tasks like counting, inspecting and labelling. A cramped space slows down these processes and increases the risk of mistakes. If received goods and items for shipment overlap, problems are multiplied.

We hope these tips will get you thinking, but you should always ask a racking specialist to carry out a warehouse storage appraisal before making changes.

R SAL

SEC Storage –

www.sec-storage.co.uk - will do this free of charge and there are many other experts throughout Europe who will be happy to advise.

Article feedback is welcome: editor@eurekapub.eu





# Efficient parts supply is essential to keeping lift trucks in action and maximising productivity. With guidance from a

parts specialist, Gian Schiava finds out what it involves and how it helps the customer.

Machine uptime is a primary requirement in modern materials handling. Lift truck suppliers understand that necessity very well, which is why they offer customers tailor-made warranty and maintenance programmes. Eureka has written several times previously on fleet management and similar topics, but this time we would like to focus on another vital support activity: getting the right part to the right place!

To discover the world of the parts business, Gian drives to the European headquarters of Cat® Lift Trucks in Almere, the Netherlands, to meet up with Arno Luyten, General Manager Parts. Arno has extensive experience in the forklift industry, but also in sectors like automotive and logistics. In addition, he has had the opportunity to work both in sales and service management, and therefore understands both worlds. We are particularly interested in what it takes to

support dealers across Europe, the Middle East, CIS and Africa, and to help them deliver the legendary Cat Lift Trucks back-up.

#### PARTS FULFILMENT

Arno opens with a clear statement. "Parts is all about availability, then quality, and finally price. However, there are so many suppliers out there (also online), and unfortunately this fierce competition often shifts the focus to pricing. Despite that pressure, we prioritise machine uptime, and the most important way of achieving that is by making sure the parts availability is market-leading."

In fact, the Cat Lift Trucks distribution centre at Puurs (in Belgium, near Antwerp) has an impressive pedigree in this respect. It delivers a 97% parts availability, and this becomes almost incredible when you understand the criteria are 'full line, first pick'.

This means that even if an order contains 37 parts in various quantities, and only one item is missing

in stock, this would be marked by the manufacturer as a failure. Even if that one item is certain to arrive the next day

In short, the facility delivers practically every order. The building has around 10,000 m<sup>2</sup> of storage space and the stock consists of 45,000 SKUs (stock keeping units). As you may expect, the facility works to the highest safety standards and the employees are continuously trained.

Being close to the ports of Antwerp and Rotterdam, and various airports, it is no surprise that lift truck parts ordered today can be delivered in a service van before 7 am the next morning.

As Cat Lift Trucks is a global brand, it has been decided to integrate the parts operation into a global system. The integration will be finalised this year and will result in even better performance. All dealers have online access to the Global Dealer Net portal, through which all parts distribution centres in the USA. Europe, Singapore and Japan are connected.

#### **THE REAL DEAL: GENUINE PARTS**

There's another 'part' of the story Arno would like to emphasise: "Do not underestimate the importance of genuine parts. After all, the whole lift truck has been developed with only approved parts and is designed to work and wear as a complete system. They were picked for their longevity and quality. By continuously adding or using other parts during the truck's life, performance can be affected negatively. Or even worse, it may lead to unexpected failures.

"Obviously, we train our dealers' engineers to deliver only the best service and we understand the temptation to use cheaper parts. But those parts may break down sooner, or they may just fit slightly less well. In the end, it can only hurt the customer's business, and that is why we take no risks."

#### **MODERN TOOLS** AND MARKET TRENDS

High parts availability depends not only on advanced warehouse management and logistics but on supporting dealers at the receiving end to ensure timely delivery.

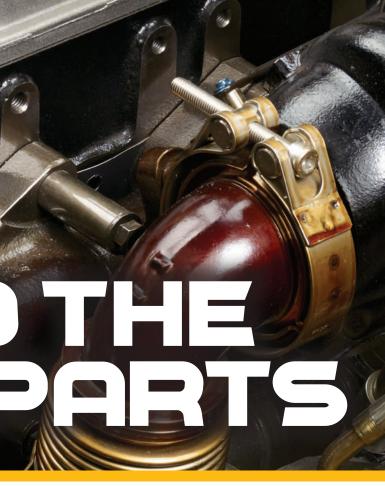
Cat Lift Trucks grants access to various ordering portals, but those are also packed with information. Arno continues: "In order to give full insight, our Global Dealer Net portal also contains support manuals, schemes, instructions and complete part lists for every truck model we produce. Even information on old models is available.

"Everything is there for dealers to run their own parts operations properly and to determine how they can keep a low inventory. From that point of view, we also help them in saving costs without compromising on quality or speed."

Support can always be improved, and today Arno gives Eureka some great news. "We have decided to extend our supply beyond our dealers or importers. As they often work with smaller, more local forklift dealers, we will be introducing something called 'nGauge'. This is a special customisable platform which facilitates and speeds up the delivery process for both dealer and sub-dealer by giving the latter access to our international ordering systems. In fact, we are also able to deliver parts from other brands, as customers often tend to have mixed fleets. By doing that, we enable our dealers to become fullservice providers."

> Parts is all about availability, then quality, and finally price.

14 EUREKA - FLEET MANAGEMENT



Of course, the expertise is available offline as well. Cat Lift Trucks also provides local training, marketing assistance and advice on how to design

maintenance programmes

alternative to a new machine.

customers. That's the real goal."

editor@eurekapub.eu

reducing costs."

you so fast! •

When we ask about trends in the lift truck aftermarket, Arno sees two clear developments. "First, due to an increased focus on the 'circular economy', it turns out that it's profitable to refurbish machinery for a 'second life'. We supply parts to many countries where customers are served with refurbished machines. By using genuine parts, the dealer is able to offer the customer a quality

"The second trend is the increased importance of information. IoT (Internet of Things) and telematics solutions will be key to managing your operation and

Arno concludes: "I started by saying parts availability is key in our business. But let me conclude by saving that we work hard every day to help our dealers to deliver maximum uptime for their

Next time you receive a lift truck part, you'll know how many people have been involved in getting it to

Article feedback is welcome:

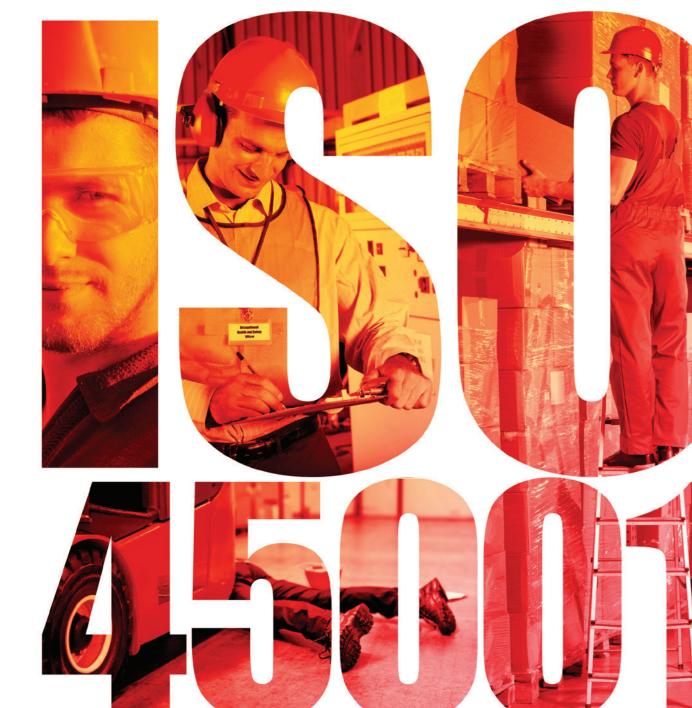








# LIFT YOURSELF **TO THE NEXT LEVEL**



#### Now that the first implementers of the new global H&S standard, ISO 45001, have moved through the process, Gay Sutton takes a closer look. What is involved, how do you go about it... and how does it benefit your business?

Companies implementing the global guality management system standard ISO 9001, or the environmental management system standard ISO 14001, will be aware of the enormous ongoing benefits accredited certification can deliver. There are advantages to be gained internally, in terms of management improvements and productivity gains, and externally, in corporate reputation and supply chain competitiveness. Now it is the turn of occupational health and safety, for which international standard ISO 45001was published on 12th March 2018.

**OVERVIEW** 

"ISO 45001 provides a framework and tool for organisations to follow to implement effective health and safety," says Kate Field, Global Product Champion for Health and Safety at business improvement company BSI. "The focus is very much on prevention of injuries and ill-health, and encouragingly, the provision of a healthy workplace. So, it goes beyond mere safety compliance and looks more holistically at what makes a happy and healthy workforce."

Companies operating in Europe, of course, already have rigorous H&S regulations to comply with and are well aware of the benefits of improving H&S in the workplace. "But those improvements then tend to plateau out," Kate explains. "By following the ISO 45001 framework, organisations move to the next level.

"Legislation is the minimum requirement needed to keep people safe and healthy. ISO 45001 is about best practice and provides a robust framework that can be consistently applied. Not only can it reduce the occurrence of accidents and incidents, but it also reduces things like sickness absence rates. There is also good evidence to show that where organisations get it right, it improves recruitment and retention, and results in a more loyal and productive workforce."

#### FLEXIBILITY AND SCALABILITY

For companies considering adopting the standard, Kate has some interesting advice. "The main thing is not to be scared by it. Many of the elements will already be in place, such as risk assessments and mechanisms for talking and engaging with the workforce.

"ISO 45001 is an outcome-based management system and is designed to be proportionate to the size and nature of the business. So a small business

won't need to create a complex, bureaucratic, paperbased system. The organisation can also decide on the scope of the management system; you can choose to apply it to a particular site or a particular activity-based area of business. It's designed to fit your needs and help you best manage occupational health and safety."

Already the first implementers have moved through the process. So now that it is settling in, what does it entail and what are the benefits?

#### **KEY ELEMENTS**

To move from a state of regulatory compliance to ISO 45001 compliance, Kate explains that there are five broad areas to focus on: leadership, culture, design, worker participation and consultation, and the supply chain.

LEADERSHIP AND CULTURE: The standard has a strong focus on the role of top management in driving occupational health and safety improvement. "And that's around creating a culture that supports positive occupational health and safety. So, it needs much stronger ownership by top management."

DESIGN: Another interesting facet of ISO 45001 is its focus on prevention, particularly at the design stage. "This ensures that the proactive identification of hazards and risks begins at the conceptual design stage, and this can be in the design of the workplace facility, the product or the organisation. If you can design hazards out, then you make your life easier."

WORKER PARTICIPATION: Across Europe, EU H&S regulations ensure that companies have mechanisms in place for worker consultation and participation. ISO 45001 takes that a step further and recognises that good engagement by the workforce brings measurable H&S benefits as well as improvements in quality and output. The new standard identifies some very specific areas where workers at all levels from the shop floor to senior management must be consulted, and then participate in the decision-making.

**SUPPLY CHAIN:** This focuses on understanding the risks and hazards that can be introduced by the supply chain, and how to manage them. It therefore covers all aspects of interaction with suppliers and contactors, from the materials and products they use to their presence and behaviour on site.

# **KATE FIELD**

Kate has over 18 years' experience in OH&S, covering most industry sectors. She started her career with HSE (Health and Safety Executive) in the UK, before moving into various industries and then into consultancy work.

An experienced trainer and gualified lecturer, Kate joined BSI as Head of Information and Intelligence at the Institute of Occupational Safety and Health. She is is now BSI's Global Product Champion for Health and Safety, supporting the delivery of excellence and expertise across 193 countries.

Kate Field, Global Product Champion at BSI.



#### ACCREDITED CERTIFICATION - STEP BY STEP

**INITIAL STEP:** For anyone interested in moving towards ISO 45001, the first step is to buy a copy of the standard (see document links on p19). "Then organisations can make a decision about whether they simply want to use elements of it as a tool to help them with occupational health and safety, or whether they want to go through the journey to meet the requirements of the full standard, and then gain accredited certification."

**PREPARATION AND PLANNING:** Having read the standard and perhaps obtained some supporting material, a logical place to start is with a gap analysis. Look at the systems and processes you already have in place and analyse the changes you need to make to meet the full requirements of the standard. From that you can draw up a step-by-step action plan that prioritises and tackles the areas you need to address.

TRAINING: Next, think about the training and competency of your workforce and arrange training programmes to enable your staff to reach the levels of knowledge that will be needed. For example, your top management will need to understand the role required of them and buy into it. Those developing the management system will need to be armed with the correct knowledge and skills. And you will need to train people in the business to undertake internal audits. There will be a range of other skills and competencies required throughout the business, although some of them may already be in place because of the rigorous EU legislation.

ACCREDITED CERTIFICATION: Finally, once the company has worked through the action plan

and internal audits, it is ready to go for accredited certification. Contact an accredited certification body to get the process in motion.

"Accredited certification is then a two-stage process," Kate comments. "We (BSI), or another accredited certification body, will audit the organisation to see if it meets the requirements. Once we are happy it does, then we will award accredited certification."



#### WHAT CHALLENGES SHOULD YOU LOOK OUT FOR?

The experiences of companies going through the accredited certification process so far have varied depending on the size and nature of the organisation and their starting point. Kate reports that some distinct trends are emerging:

#### ROLE OF TOP MANAGEMENT: There can be

challenges in ensuring engagement by the top management. Typically, the health and safety manager with the health and safety director have driven such change. However, ISO 45001 requires that everyone at the top, from the CEO and HR director to the finance director, has a role in creating a positive culture for health and safety. "This has been quite a change for some organisations. But once they understand the reasons why this should happen, and the benefits it brings, we do see these changes take place."

#### PARTICIPATION AND CONSULTATION:

There are some very specific things that the 'nonmanagerial' workforce - shop floor workers - have to be consulted on. That means they will be asked about their views and must then be involved in the decision-making. "Some organisations have had to work hard to demonstrate that they're fulfilling these specific requirements," Kate warns.

**COMPETENCY:** There has been a trend around organisations demonstrating they have the right competencies at the right levels on health and safety. There must be evidence that the correct skill sets are in place.

TAKING ACTION: "We tend to see this with other management systems as well - where organisations carry out their internal audit and identify actions but are not always able to demonstrate they've done anything to correct the issues. To effectively correct a weakness, it is important to look for the root causes of the problem and then correct those root causes. What often happens is that organisations don't address the root causes. They address the immediate problem but then see the same problem turn up again at the next audit," Kate explains.

ISO 45001 provides a framework and tool for organisations to follow to implement effective health and safety.





# ISO 95007 KEY FACTS

- Introduced on 12th March 2018
- Developed by ISO, based on the BSI's OHSAS 18001standard, the International Labour Organisation's ILO-OSH guidelines, various national standards, and the ILO's international labour standards conventions
- The existing OHSAS 18001 will be withdrawn on 11th March 2021 and companies have three years to migrate

#### **DRIVING UP PERFORMANCE**

While some of these difficulties have revolved around documenting analysis of shortfalls, and the steps taken to address them, it is also worth remembering that ISO 45001 is about best practice. It is an iterative process based on the Plan-Do-Check-Act cycle and is designed to lead to a culture of continuous improvement.

"It's not a static one-off exercise," Kate concludes. "It's about driving up performance and continually looking for opportunities to improve safety and health within the workplace."

Whether you're aiming to adopt the standard in full, apply elements of it to the entire organisation, or focus on a site or work stream, it will no doubt bring significant benefits that continue to accrue over time.

#### Article feedback is welcome: editor@eurekapub.eu

## DOCUMENTS

**Obtain the standard:** www.iso.org/standard/63787.html shop.bsigroup.com

Free introductory download: www.iso.org/publication/PUB100427.html







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