

THE LARGEST INDEPENDENT TOWER CRANE SUPPLIER IN THE UK

SADDLE JIB TOWER CRANES

LUFFING JIB TOWER CRANES

SELF-ERECTING TOWER CRANES

GENERATORS

HAULAGE & LOGISTICS

TRAINING

SHOT BLAST & SPRAY BOOTH

About Us



riginally established in 1974, as a self-erecting tower crane rental company, Falcon Tower Crane Services Ltd, as it is now known, has evolved from a regional tower crane supplier to an internationally recognised brand in tower crane sales and rental.

Throughout its long history, the company has specialised in lifting solutions on all types of construction projects and from its headquarters in Shipdham, Norfolk, the company has responded to the increasing demand from UK construction companies to supply high quality, reliable tower cranes.

The 1980's saw a move away from self-erecting tower cranes to the more conventional saddle jib and luffing jib tower cranes resulting in a continued expansion in both fleet size, as well as overseas operations.

During the 1990's and into the early 2000's the fleet increased to over 200 tower cranes and incorporated, for a short while, the provision of passenger hoists as well.

Some 25 years ago, a strategy was established to modernise & standardise the fleet. It's key feature was to predominately use cranes from Spanish manufacturer Jaso, whilst the older machines were gradually sold off through our export division. This, eventually, led to Falcon becoming the UK representatives for Jaso equipment.

During the financial crisis from 2008, UK hire activity reduced substantially and the company shifted its focus from UK rental to worldwide exports. In so doing, the majority of the staff were able to be retained during this period, which enabled the company to grow substantially during the ensuing recovery. The organisation continued to expand

across the UK and Europe and now employs over 450 personnel running a fleet of over 400 cranes. More recently the company returned to its roots by developing and then expanding a new dedicated self-erector crane division.

Along with tower cranes, other activities in the company have grown in recent years, such as the development of a dedicated generator power division (150+ units) to satisfy the growing demand for turnkey projects, a transport infrastructure, a shot blast and spray facility for both internal & external operations and a specialist construction training service to provide a variety of construction orientated courses.

The company is proud to be the largest independent tower crane supplier in the UK and one of the largest in the world.

Some Key Figures	
400+ tower cranes	01
450+ employees	02
Average age of our fleet of just 5.9 years	03
150+ generators	04
5000+ ancillary items	05

Meet the Team



















Meet the Team





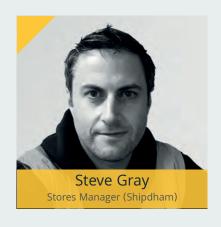














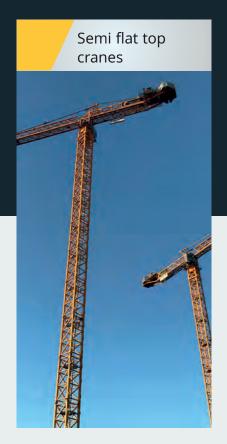
Saddle Jib Tower Cranes

Falcon has a varied fleet of saddle jib tower cranes, which are supplied predominantly from Jaso with other models from manufacturers including Potain and Liebherr. These range from 40 to 700 tonne metre capacity.

Saddle jib cranes offer many benefits and are generally more cost effective to hire than their luffing jib equivalent. Having a quicker operation, lower power requirement and being easier to erect and dismantle, they remain a prominent feature across the UK skyline. They can be erected on a ballasted base or fixing angles and can freestand, in some cases, without ties to the building up to heights in excess of 100m.



Our city crane models use, as standard, a tower section with a cross section of only 1.2m x 1.2m. With models up to 52 tonne per metre, they achieve freestanding heights of up to 46m. This compact solution is ideal for sites with restricted space and even allows for the tower cranes to be installed within small lift shafts.



Along with the conventional saddle jib cranes, Falcon also offer a fleet of semi flat top saddle jib tower cranes. These tower cranes can have a jib reach of up to 85m with a maximum capacity of 24te. They are an ideal solution to multi crane sites and contracts with height restrictions.



Due to the recent relaxation in regulations, our saddle jib tower cranes can now be supplied with a remote control as a Pedestrian Operated Tower Crane (POTC). This function allows the cranes to be operated via a remote control from the base of the crane, giving the operator the flexibility to move around site whilst operating the crane.



Saddle Jib Tower Cranes

Make & Model	Max Jib Length	Capacity at Jib end *1	Max. Capacity	Generator Power Req
Jaso J4510	45.0m	1,000kg	2,500kg	80kVA
Jaso J52NS	52.0m	950kg	5,000kg	60kVA
Jaso J115.8	60.0m	1,100kg	8,000kg	150kVA
Jaso J160.10	65.0m	1,700kg	10,000kg	100kVA
Jaso J210.A	60.0m	2,800kg	10,000kg	150kVA
Jaso J300N.16A	75.0m	2,000kg	16,000kg	200kVA
4				

^{*1} Capacity at Jib End in Highest Fall duties

Semi Flat-top saddle jib tower cranes

Make & Model	Max Jib Length	Capacity at Jib end *1	pacity at Jib end *1 Max. Capacity	
Jaso J150.10	65.0m	1,400kg	10,000kg	130kVA
Jaso J360	60.0m	4,000kg	18,000kg	150kVA
Jaso J560	85.0m	12,000kg	24,000kg	300kVA
Jaso J700	80.0m	4,800kg	24,000kg	350kVA

 $^{^{\}star 1}$ Capacity at Jib End in Highest Fall duties

Luffing Jib Tower Crane

Falcons' luffing jib fleet includes models from Jaso, Lambri & more recently Wolff. Luffing jib cranes have many benefits and are widely used in cities and congested areas where over-sailing by the jib is a major consideration. The design of this type of machine enables multiple cranes to be installed on a site in close proximity to each other. This increases the hook time available on site and allows contract completion dates to be substantially reduced as a result. As with our saddle jib cranes they can be erected on a ballasted base or fixing angles.

Over sailing - what is it?

nder English Law, a land owner owns the airspace above their land. It is therefore potentially possible for unauthorised over-sailing by the crane jib to be

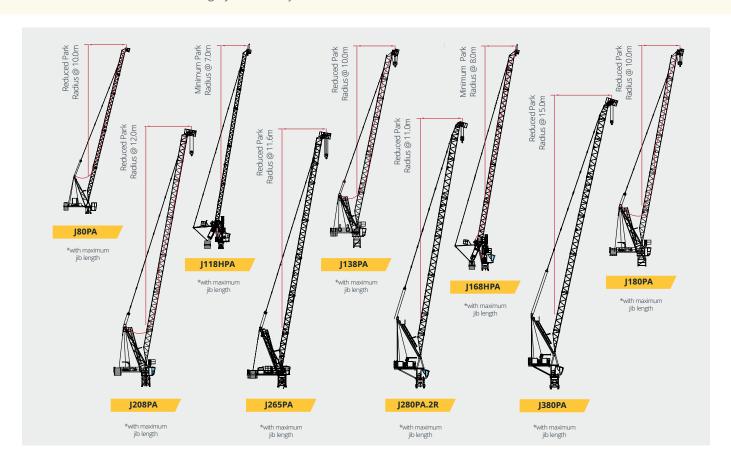
classed as trespass if a developer or its contractor allows this to happen.

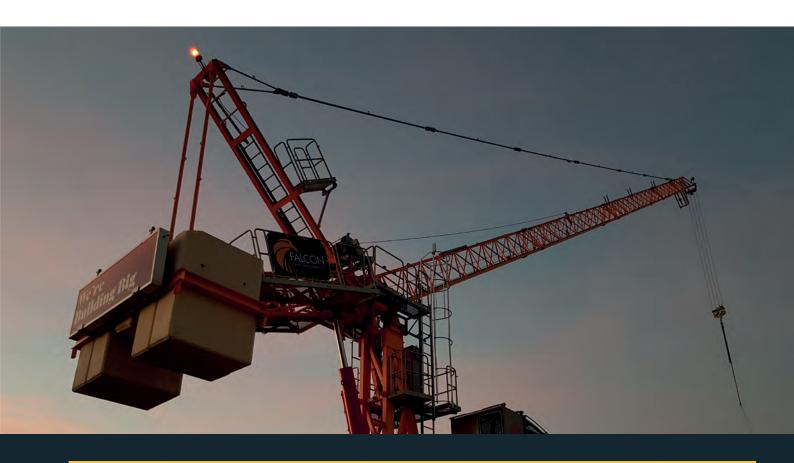
The rule is the same when the crane is in operation or when the crane is in free slew (the jib will face away from the direction of the wind). To limit this impact, all of Falcon's luffing jib towers can be fitted with a special park radius device, which allows the standard park radius to be reduced from its normal position. The hydraulic jib tower cranes are already supplied with a low park radius as standard.

By keeping the park radius to a minimum, it reduces the impact of the construction site on the local community.

Hydraulic Luffing Jib Cranes

longside the conventional luffing jib cranes, Falcon currently supplies two types of hydraulic luffing jib cranes with a jib length of up to 50m and the maximum capacity of 6te. This type of tower crane has multiple benefits such as low power requirements and an incredibly reduced out of service parking radius (7m of a 45m jib).





Luffing Jib Tower Cranes

Make & Model	Max Jib Length	Capacity at Jib end *1	Max. Capacity	Generator Power Req	Standard Park Radius *2	Reduced Park Radius *2
Lambri LCL 20.1	20.0m	1,000kg	4,000kg	45kVA	7.0m	N/A
Jaso J80PA	40.0m	1,300kg	5,000kg	60kVA	20.0m	10.0m
Jaso J138PA	45.0m	2,100kg	8,000kg	150kVA	19.0m	10.0m
Jaso J208PA	60.0m	1,500kg	18,000kg	200kVA	26.0m	12.0m
Jaso J265PA	60.0m	2,000kg	18,000kg	220kVA	21.0m	11.6m
Jaso J280PA.2R	60.0m	3,000kg	18,000kg	250kVA	21.0m	11.0m
Jaso J380PA	65.0m	3,000kg	36,000kg	250kVA	21.0m	15.0m
Wolff 500B	60.0m	6,900kg	45,000kg	250kVA	30.0m	N/A

^{*1} Capacity at Jib End in Highest Fall duties *2 Park Radius for Max Jib length

Hydraulic Luffing Jib Tower Cranes

Make & Model	Max Jib Length	Capacity at Jib end *1	Max. Capacity	Generator Power Req	Standard Park Radius *2
Jaso J118HPA	45.0m	1,600kg	6,000kg	100kVA	7.0m
Jaso J168HPA	50.0m	2,500kg	6,000kg	100kVA	8.0m

^{*1} Capacity at Jib End in Highest Fall duties *2 Park Radius for Max Jib length

Self-Erecting Tower Cranes

For total flexibility, Falcon can offer a wide range of lifting machinery, with the self-erecting tower crane being a prime example.

Suitable for many applications, low power consumption and high versatility allows these cranes to be manoeuvred onto almost any site. With hook heights up to 36m and jib lengths up to 50m, combined with low transportation and erection costs, these machines can be a cheaper and more efficient option for the smaller building sites.

Modern fleet

which over 75% of our self-erecting fleet under 10 years old, Falcon continues to invest in modern machinery and technologies. The recently expanded fleet of just under 70 machines is one of the largest in the UK and it continues to develop & expand.

GAPO

With access to tight building sites becoming an increasing problem, Falcon can supply the ideal solution with a GAPO machine.

These Italian manufactured machines, complete with site axles for each of our self-erecting cranes, act as a trolley, to enable cranes to be manoeuvred to the desired location. This often negates the requirement for expensive, large, mobile cranes to position the machines in their desired locations.

Crawler Cranes

or contracts that require even more flexibility, Falcon can offer two types of crawler mounted self-erecting tower cranes – the Potain 340A and Munster CRL 30/36. Both machines can be tracked around site using their on-board mounted generator. Alternatively, they can utilise an electrical feed from mains power, if used in a static position.

Large Self-erecting tower cranes

The change in planning requirements over the past few years, has resulted in increased building heights, meaning the introduction of taller self-erecting cranes has been mandatory within the fleet. Falcon has responded to this change, with the addition of self-erecting tower cranes which are capable of reaching up to 36m tower height and 50m in jib length.





Self-erecting Tower Cranes

Make & Model	Max Jib Length	Max Tower Height	Capacity at Jib end *1	Max. Capacity	Generator Power Req
Potain HD16	24.0m	18.5m	750kg	2,000kg	45kVA
Potain IGO 21	26.0m	18.0m	1,800kg	700kg	40kVA
Liebherr 32TT	30.0m	21.5m	1,000kg	4,000kg	45kVA
Potain IGO 36	32.0m	20.8m	1,100kg	4,000kg	40kVA
Liebherr 34K	33.0m	26.0m	1,000kg	4,000kg	45kVA
Potain IGO 50	40.0m	20.8m	1,100kg	4,000kg	40kVA
Vicario OMV40A	40.0m	22.5m	1,400kg	4,000kg	45kVA
Potain HUP 40/30	40.0m	32.0m	4,000kg	1,000kg	60kVA
Potain HDT80	45.0m	38.3m	1,350kg	6,000kg	45kVA
Potain IGO T85A	45.0m	33.0m	1,250kg	6,000kg	45kVA
Arcomet A45D City	45.0m	45.0m	1,300kg	5,000kg	100kVA
Arcomet A47 EcoCity	47.0m	28.5m	1,300kg	6,000kg	60kVA
Potain GTMR386	50.0m	36.2m	1,500kg	8,000kg	100kVA

^{*1} Capacity at Jib End in Highest Fall duties *2 Park Radius for Max Jib length

Crawler Mounted Self-erecting Tower Cranes

Make & Model	Max Jib Length	Max Tower Length	Capacity at Jib end *1	Max. Capacity	Integral Generator Size
Potain 340A	40.0m	22.6m	1,000kg	6,000kg	60kVA
Munster CRL 30/36	30.0m	23.0m	1,100kg	4,400kg	45kVA

^{*1} Capacity at Jib End in Highest Fall duties

^{*2} Park Radius for Max Jib length

Falcon Power Generation

When our customers tell us what their requirements are, we listen, then we design a power solution to satisfy their needs.

Falcon Power Generation has invested in a modern and robust fleet of hire generators, ranging from 20kVA to 1250kVA providing both off the shelf and bespoke solutions, so units deliver the power needed for the job in hand. Our generators can be supplied as stand alone sets with automatic start or synchronised together to give a truly uninterrupted power supply. Road tow generator chassis are also available up to 100kVA. In addition, a fuel monitoring facility is also offered where clients fuel requirements are continuously monitored by the generators themselves and the reordering of fuel is automatically done without the need to manually check fuel levels.







Stage 3A compliant

ach of the 150 plus generators in our fleet are compliant with the new NRMM regulations and are stage 3A compliant. The benefit is twofold, not only will all our customers be complying with current regulations but they will also benefit from lower CO² omissions to achieve the European Directive 97/68/EC. The result of this compliance is, of course, lower fuel bills.

What is NRMM?

Il NRMM (Non-Road Mobile Machinery) between 37 and 560kW must conform to the EU Engine Emission Stage or have an exemption issued by the Greater London Authority. Currently the regulations apply to all developments that fall within the Central Activity Zone (CAZ) within London, including areas such as Canary Wharf, however there are plans to expand this further throughout the UK in the coming years.





Falcon's JCB's RS models have some great features which make these generators very versatile. They're also built to be tough which is important to ensure we can offer our customers the most efficient power generators, that are easy to use and most importantly they withstand the test of time and the rigours of construction sites.

Andy Teanby, Fleet Manager



Falcon's Hybrid Power Solutions

hese units deliver on both cost savings and additional cuts in CO² emissions, just like a hybrid car but on a larger scale. The principle is that the generator charges the hybrid part of the system whilst it is in normal operation. This enables the project to switch on to stored battery power for lighting and advertising once the site closes. This eliminates noise at night and reduces engine running time and, hence, fuel consumption.

Fuel management and 24 hours GPS monitoring

ur fleet of bunded fuel tanks range from 450l to 3000l and, on request, can be fitted with telemetry equipment to maintain, control and monitor fuel consumption 24 hours a day 7 days a week. It can also

monitor the current CO² emissions, fuel savings, battery duration and engine run time saved.

With this system in place fuel replenishment can be remotely monitored and delivery arranged to avoid fuel shortage.

Applications include, but are not limited to:

- Tower crane aviation lights
- Small cabin set-ups
- Security lighting and CCTV systems
- · Communications and wireless access points
- · IT and medical equipment
- Environmental monitoring equipment
- PA systems





Training

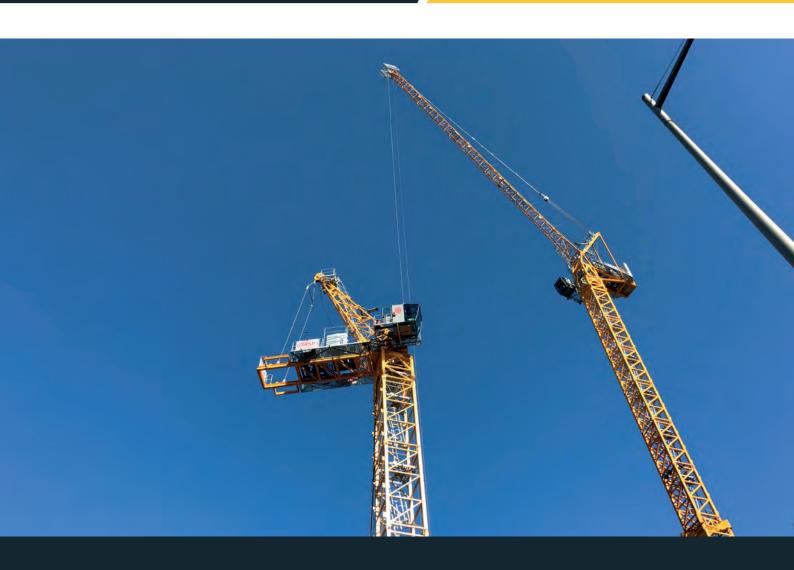
At Falcon, we recognise the significance of accredited training as an integral part of the service we offer to our clients.

Working alongside many of the UK's leading accredited bodies, including CPCS, ALLMI and NPORS, Falcon are committed to continued service improvement supporting achievement of qualifications which learners and employers understand and value, whilst having the confidence that they are also compliant with the latest legislation and industry good practice.

As a CITB Approved Training Organisation (ATO) our instructors and assessors are not only experts in their individual fields but are also

dedicated to delivering training and assessments which are both relevant and engaging. Certain training and assessments can be provided at your location, enabling your company site-specific procedures or requirements to be incorporated and to allow trainees to get the most from their experience. However, if you require the training to be conducted at our centre, we have an outstanding custom built, fully equipped - lifting centre at our headquarters in Shipdham, Norfolk.





CPCS Accredited Test Site

ur CPCS Test Site in Norfolk facilitates the delivery of CPCS Technical Tests for the following categories, with accompanied relevant training, if required, tailored to meet the needs of both novice and experienced individuals:

- CPCS Tower Crane Cab Controlled -Trolley and Luffing Jib (A04A & B)
- CPCS Tower Crane Remote Controlled Trolley Jib (A04C)
- CPCS Crane Lifting Operations Supervisor (A62)
- CPCS Appointed Person (A61)
- CPCS Slinger / Signaller- All Types Static Duties (A40B) Falcon is ideally placed to train the next generation coming into the construction and allied sectors and to help address the skills and labour shortage. We are looking to make further expansions to the categories which can be delivered at our CPCS Test Site to meet the needs and demands of a fast-growing industry.

Falcon can also deliver in-house training for the following categories:

- Tower Crane Cab Controlled Saddle and Luffing Jib
- · Crane Supervisor
- Self-erecting Tower Cranes (POTC)
- Appointed Person
- · Slinger / Signaller- All Types Static Duties

Credibility

Ith over 40 years of site-based experience within the construction industry and being involved with some of the largest projects in the UK Falcon is ideally placed to assist its clients with whatever training they may need.

Haulage and Logistics

Our FORS Gold accredited Falcon Freight Services branch of the company has a vast array of transportation to accommodate any and all operations, no matter the complexity or size of the task.

Our vehicles are designed not just for the transportation of tower crane components, but also for specialist items such as test weights. Our fleet is also available for hire, with drivers, for general haulage with the ability to operate both in the UK and on the Continent.

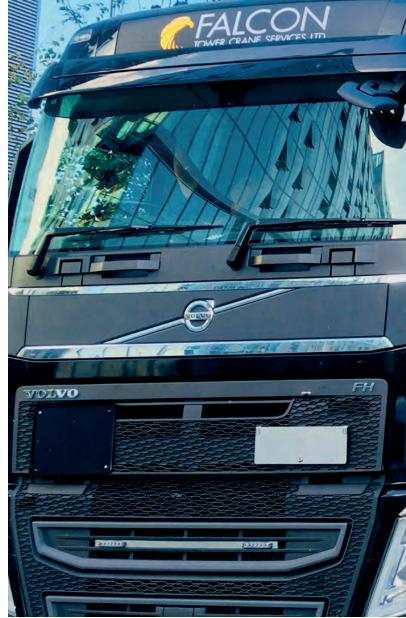
anging from Mercedes Actros to Volvo FH500 units, our fleet of nine vehicles are fitted with Euro 6 engines, 360° observation cameras & warning sensors. Five units of the fleet are also fitted with Hydrauliska Industri AB (HIAB) FASSI crane units, some of which have the ability to lift 3 tonnes at 16m radius.

Our articulated vehicles are equipped with interchangeable trailers, ranging from 10m to 13.6m, and can also be fitted with our low loader trailers which can be extended to 20m, via a flip toe ram, to accommodate self-erecting tower cranes.

Not only do we pride ourselves on our fleet of vehicles, but also our crew of ADR certified drivers who are fully trained and given a comprehensive induction & driving assessment from our in-house training department.

All of our drivers are given continual development training throughout the year, maintaining a high level of competency & allowing us to keep health and safety paramount to our company.







Shot Blast and Spray Booth

At Falcon we recognise the importance of having not just a strong product and a comprehensive service, but also an identifiable company image. With this in mind, we have invested in 2 shot blast booths and 5 spray booths across our depots in Shipdham and Manchester.

Shot blast booths

The shot blast booths use G12 iron grit which is recycled on a corkscrew system enabling us to use the grit for up to 200 operations - making this system very efficient and environmentally friendly. The system is accredited to achieving SA3 white metal standard.

Spray Booths

he spray booths are complete with the latest, state of the art, electro-static equipment and conventional HVLP painting equipment. This equipment enables us to reduce wastage and maintain a low VOC. The paint used is a marine based paint which has a high zinc phosphate content and is 100% lead free. Three of the booths are located in an old World War II aircraft hangar on Shipdham Airfield, which includes a 20t overhead rail mounted gantry crane and the other two are in our northern depot at Birch.

The Cranes

he advantages of offering respraying to our customers are two fold. The first and most important is for health and safety reasons. Any tower crane in our fleet can be shot blasted to its bare metal allowing our engineers to thoroughly inspect and carry out non-destructive testing (NDT) procedures on the structure before it is resprayed. By adding layer upon layer of paint without shot blasting, the risk can increase of structural damage going unnoticed. The second benefit is the appearance of the finished product meaning that we can supply any tower crane in our fleet in our customers own livery. Once a machine has been through our booths, the result is an extremely high-grade product – perfect for any prestigious project.





What else can we do?

Ith the facilities Falcon have available, we can blast, repair and respray almost any piece of equipment. This includes construction equipment, heavy industrial plant, lifting accessories, site accommodation, containers and many, many more.



Website Login and App

Falcon has developed an interactive website and mobile phone / tablet app called Falcon Online to give our customers direct access to safety critical documentation at all times. Once a tower crane has been erected on site, it is assigned to a customer and a job site.

Each customer will then be able to access erection and dismantling documentation such as RAMS, Site Inspections and Grillage Certificates. As the project progresses, the Operator Weekly Timesheets and Daily / Weekly Checklists will be available, as well as Service Reports, Work Instructions, Test Certificates and even invoices. It is a complete crane file at your fingertips.





ver the next two years, Falcon Online will be developed further, to allow our customers to re-order ancillary items, view live statistic data about each crane and project, such as downtime and performance and our customers will even have the ability to amend the artwork on LED digital signs erected on site.

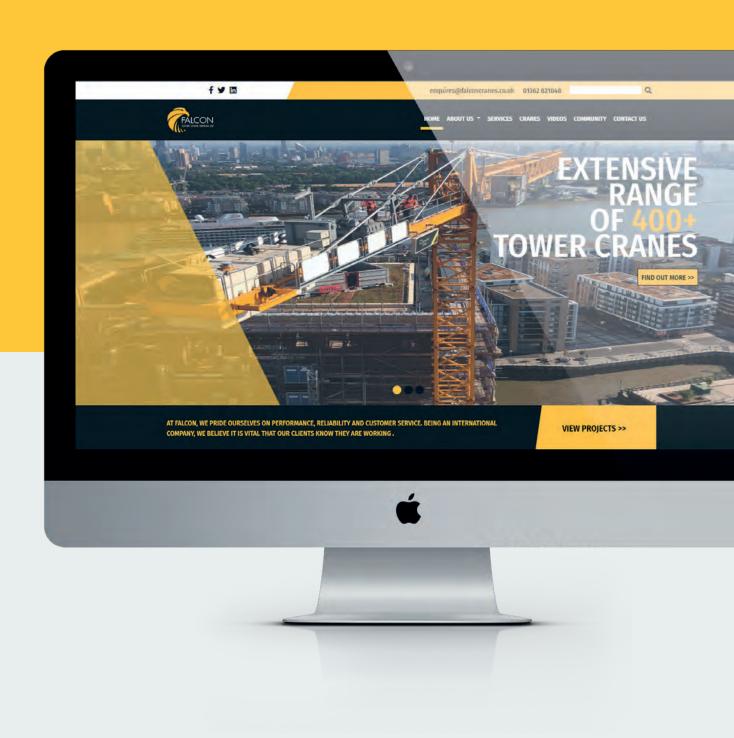
Our operators, slinger/signallers and supervisors, will also benefit from this technology as they will be able to create and submit weekly timesheets and daily / weekly checklists immediately. This will enable them to review current and historical documentation, which will be available at a swipe

submitting work instructions in real time.

Finally, all our employees will benefit from having a digital personal space, where they can access information such as handbooks and procedures.

The high level of encryption makes Falcon Online secure and safe to use and is compliant with the latest GDPR. Available to download immediately on Windows, Android and Apple / IOS.

Please contact enquiries@falconcranes.co.uk or 01362 821048 for any further information



Sales and Export Division

Many people recognise Falcon as a specialist in tower crane rental, but what many people don't appreciate is how active Falcon is in the tower crane sales market. With a dedicated division within the company specialising in this field, Falcon sell many new and second-hand tower cranes per year across the globe. With experience in global shipping, letter of credits and customs documentation Falcon can offer a turnkey service to all potential clients.

Current clients are in Chile, Mexico, Canada, Israel, Taiwan, Vietnam and Australia not to mention 16 other countries across Europe. Our reputation for quality, price and good customer service leads to repeat orders with many of these customers.

UK customers

loser to home, Falcon works with several UK based construction companies, which opt to purchase machines for their own fleets rather than hire. Falcon can provide the complete service package from, selling the tower crane, managing the erections and dismantlings, maintenance, repair and storage. Flexible agreements are tailored to suit every customers' needs and requirements.

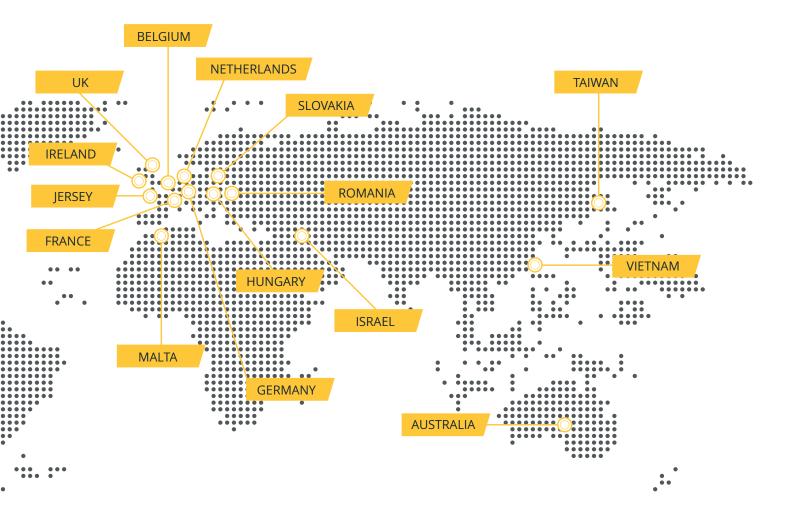
The advantage to the rental fleet

ne of Falcon's key strategies is the modernisation of its fleet and with over 400 tower cranes, the average age is just 5.6 years and dropping, with the target to achieve under 5 years.

The export division complements this strategy with the sale of older machines to countries where age stipulations are not so important. This leads the way for newer models with modern designs and new technologies to enter the fleet.







Health and Safety Accreditation

Health and Safety Accreditation

Falcon takes the health, safety, welfare and the environment very seriously and nothing is more important to this company than the wellbeing of its employees and customers.

One of the many steps that Falcon takes to ensure a safe place of work is undertaking the accreditation of seven different SSIPs (Safe Systems in Procurement). Being a member of a SSIP demonstrates to our customers that we have attained the appropriate core criteria which has been endorsed by the Health and Safety Executive (HSE). Falcon are active members of the Supply Chain Sustainability School which shows commitment to a more sustainably built environment.

ISO9001

In addition to the SSIPs Falcon also holds ISO9001:2015 quality accreditation, which has been held since 2007 and updated to the latest standard in the final quarter of 2018. This Management System is germane to our company ethos and demonstrates to our customers the important emphasis placed on quality assurance. Accreditation to a recognised quality standard is essential for dealing with and complying with legislation. Holding this accreditation ensures we identify, measure and improve our core processes. Continual improvement is vital in assuring that we comply to the standard, ISO9001 is the world's most widely recognised quality management standard.

ISO14001

Falcon holds an environmental management system (EMS) standard ISO14001:2015. This accreditation was gained in 2014 and updated in line with our ISO9001. Holding this accreditation assists the organisation to focus, identify and manage environmental conditions, such as the reduction of carbon footprints, making the most out of renewable energy and cutting waste. It ensures that Falcon stays compliant with current environmental legislation while publicly demonstrating commitment to protecting the environment with our continual improvement.

OHSAS18001

Occupational Health and Safety Assessment Series, (officially BS OHSAS 18001) is an internationally applied British Standard for occupational health and safety management

systems. Falcon will be upgrading this accreditation in the second quarter of 2019 to the latest version which will become ISO45001:2018. Like the other accreditations it provides a framework to identify, control and decrease the risk associated with health and safety within the work place. Our aim is to reduce the likelihood of accidents and incidents and demonstrate a sound occupational health and safety performance. The accreditation lets our customers know that, in Falcon, we are serious about safety within the organisation, thus making our organisation a safer place in which to work.

FORS

Falcon has recently incorporated a transport division into the company and quickly achieved FORS Gold and CLOCS accreditation. Being associated with FORS is a mark of quality for our products and services. Gaining quality assurance has given us the understanding of current legislation on the latest rules of the road, our drivers can help to increase traffic flow, reduce delays and cut running costs for our business. This award shows our customers that we are committed to improving safety by making our drivers aware of health and safety for other drivers and vulnerable road users, in addition to caring about the efficiency of our vehicles and their environmental impacts.



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REACHING NEW HEIGHTS

