



**SUNBELT**<sup>®</sup>  
RENTALS

**HOISTS**



**WE ARE A HIGHLY  
SKILLED TEAM  
READY TO PLAN,  
CONFIGURE AND  
SUPPLY HOISTS  
TO MEET ANY SITE  
REQUIREMENT.**



Sunbelt Rentals is the UK's leading supplier of hoists for hire to the construction and industrial sectors. We own the largest rental fleet of Alimak and Stros construction hoists in Europe.

We supply solutions for the vertical transportation of passengers and materials, meeting the demands of major construction projects, both large and small.

# PASSENGER AND GOODS HOISTS

Passenger and goods hoists are used to transport people and materials vertically up a building or structure, and down a shaft below ground level with the ability to stop at a number of landings.

Hoist cages can be supplied in a variety of sizes: 1.0 - 6.2 metres long, 1.3 - 2.0 metres wide and payload between 500 - 3200Kg. With access to the cage available from three sides, hoists can be configured to suit most applications in construction and across industry.

A recent addition to our fleet is the Alimak Mammoth 55/46 hoist, which has a 5500Kg capacity and measures 3m wide x 4.6m long.

Different drive technologies and control systems are available to suit the intended use of the hoist and provide a reliable and efficient solution for your hoisting needs.

Passenger and goods hoists are usually operated from inside the cage by a trained driver, who responds to calls from site personnel and supervises the safe loading and unloading of the cage at the required landings.





# GOODS ONLY HOISTS

Goods only hoist cages are equipped with drop down flaps at either end of the cage to provide a loading ramp to the landing level. This enables pallet trucks and trolleys to be moved in to and out of the cage safely.

Goods hoists are fitted with full height electrically and mechanically interlocked landing gates.

Goods only hoists are available with cage internal lengths of 1.0 – 6.2 metres, internal widths of 1.3 – 2.5 metres and payloads of 300 – 2500Kg

# TRANSPORT PLATFORMS

A transport platform is a hybrid between a passenger and goods hoist, and a goods only hoist. These platforms are more suited to larger or bulkier loads, where an enclosed hoist may not provide sufficient headroom such as glazing panels, large palletised materials and bathroom pods etc.

We can offer some of the largest capacity transport platforms currently on the market ranging from 500Kg to 6000Kg. Cage sizes range from 1.6m to 6.2m in length with a wide variety of configurations possible.

These can often be twinned with conventional passenger and goods hoists to suit bespoke applications.



# BESPOKE HOISTS

At our manufacturing facility, we can create bespoke hoists or modify existing units to suit any lifting requirements you may have.

Hoist cages can be adapted to suit different sizes and shapes of existing lift shafts or finished in your own brand colours.

# ACCESSORIES

We are able to provide a range of accessories with our hoists, these include:

- Landing Protection Panels
- Landing Infill Plates
- Steel Foundation Plates
- Landing Bridges
- Top Hats
- Long Materials Carrier
- Wireless Indicator Systems

# BEAM HOISTS

Beam hoists are most commonly found on city centre construction sites adjacent to main roads with no off-road unloading facilities.

These sites typically have a scaffold gantry built out over the pavement and delivery vehicles pull up alongside the gantry to be offloaded. The beam hoist is an 'I' section beam, mounted on the site scaffolding and extended past the outer edge of the gantry. A motorised trolley unit, which has an electric winch suspended from it, runs along the beam. This enables materials to be lifted from the delivery vehicle, transporting them via the trolley onto the gantry for distribution to the workplace.

Winch units are available with a variety of chain lengths and 1000 or 2000Kg lifting capacity. All of our winches operate at 415 volts, 3 phase to give added reliability, and are controlled from an attached pendant. Please note that we only supply beam hoists as part of a package with a goods only or passenger and goods hoists.



## CASE STUDY

# 103 COLMORE ROW

## BIRMINGHAM

DURATION **60 weeks**

**103 Colmore Row is Birmingham's tallest commercial building and occupies the site of the former NatWest Tower building which was demolished between 2015 - 2017 to make for the new development.**

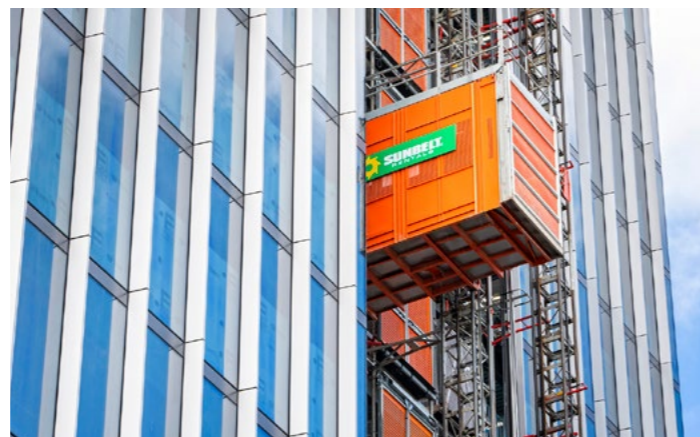
At 108m high and 26-storeys tall, the £87m tower was developed to provide 223,631 sq ft of office accommodation, plus a rooftop restaurant and cocktail bar. Construction of the building commenced in December 2018. Since then, BAM has installed 2,440 tonnes of steel, poured 25,000 tonnes of concrete and fitted 2,300 glazing panels. Situated at the heart of Birmingham's business district, 103 Colmore Row now dominates the skyline in Birmingham and forms a new landmark for the city.

On the back of the previous success of hoisting solutions for the nearby project at No 3 Snow Hill in Birmingham, Sunbelt Rentals were approached by BAM several years ago at the development stages of 103 Colmore Row to enquire about suitable hoist access solutions. At this point, the former NatWest Tower building was still being demolished, however due to numerous meetings, pre-planning and early engagement with the client, Sunbelt Rentals were able to quickly ascertain the customer's needs and advise the best hoist package for the project.

### THE CHALLENGE

The building is being constructed using large, bespoke sections of cladding. These are very heavy and awkward to transport - especially for a structure that is 26-storeys high. The size of the cladding panels determined the minimum size of the hoists needed.

Another consideration was limited floor space. 103 Colmore Row is located on the corner of Colmore Row and Newhall Street - a congested area of Birmingham - so foot space on-site is minimal. Although large cage hoists were needed, it was important that only minimal space was taken up at ground level. In addition to this, BAM needed to transport personnel efficiently over the 26-storey development. Being a major high-rise project, safety, reliability and equipment quality were all major factors.



### THE SOLUTION

Sunbelt Rentals provided a complete hoist access solution at 103 Colmore Row. In January 2019 Sunbelt Rentals provided an Alimak 12/30 Passenger Hoist to specialist formwork contractor AJ Morrisroe to facilitate the slipform construction of the building's concrete core. Over five months the hoist was rapidly installed to over 110m in height. This hoist was subsequently dismantled and removed to allow the frame of the building construction to commence. At this point the hoist became the highest in Birmingham, clearly visible from the M6 motorway and appearing higher than the nearby BT Tower, dominating the Birmingham skyline.

Sunbelt Rentals then provided an Alimak 12/17 Passenger/Goods Hoist for access to enable the construction of the basement. The hoist was lowered into position with support from BAM's Lifting Team and installed around 15m below ground. This hoist was subsequently removed to enable the basement to be handed over and allow further construction to progress.

In January 2020 Sunbelt Rentals commenced the main element of hoist works on site utilising a large Alimak II 20/42 650 FC XL Passenger/Goods Hoist. Offering an internal cage size of 2m wide, a length of 4.2m and an unrestricted opening height of 2.3m in height, this construction hoist can accommodate such a size load, but remains fully enclosed to protect the occupants and public whilst transporting materials at such a height.

The size of the cages meant they had to be delivered on specialist transport, under abnormal load conditions. This was all arranged and delivered in house by Sunbelt Rentals' Operations Team and carried out using a new lorry purchased specifically for this task. Over the next eight months the hoist was subsequently climbed at a rapid schedule to a height of over 110m above the streets of Birmingham.

Due to the tight time and space constraints on-site, all deliveries were made on a 'Just in Time' basis, and the majority of the works conducted over weekends in order to minimise downtime during weekday operations. In June 2020, an additional Alimak 12/30 Passenger Hoist was added directly next to the XL Hoist to provide further personnel capacity over the building, as construction intensified and staff numbers on-site increased.

Both the Alimak II 20/42 650 FC XL Passenger/Goods Hoist and the Alimak 12/30 Passenger Hoist are currently at full operational height and will continue to be well into 2021 when a phased dismantle programme will commence.

The key to this and all major projects has been early engagement with both the client and all stakeholders. By fully understanding the client's requirements and challenges from an early onset, Sunbelt Rentals were able to advise the best solution for the project and deliver operationally.

# SERVICES

## DESIGN AND PLANNING

We offer extensive support during the planning process for hoist installations with feasibility and planning studies, site-specific drawings, design, calculations, and technical assistance. Each and every project is planned out meticulously prior to the procurement of machinery and mobilisation on site.

## DELIVERY

Delivery of our rental hoists is typically made by one of our rigid lorries fitted with a lorry mounted crane, equipped with lifting accessories and driven by a competent driver/operator. All deliveries of our hoist equipment to site are planned in advance to ensure minimum site disruption and inconvenience. Our delivery fleet of 8 wheel construction chassis vehicles can self-offload and position the hoist base assembly at up to 12 metres of the vehicle, depending on site conditions. Our FORS registered HGV fleet is compliant to major project standards and fitted with the latest emissions controls, allowing deliveries anywhere in the UK.

## INSTALLATION

Installation of your own hoists is carried out by our experienced and competent site engineers from supplied drawings and site information. All work is carried out efficiently and at competitive rates. The safety of our installation team and that of everyone on site is of utmost priority, so we will plan and manage the installation in detail.

Due to the nature of our work it is essential that control measures are in place while working at height. All installation engineers are trained to work at height and provided with the correct Work at Height PPE including full body harnesses, fall arrest and work positioning lanyards, which are inspected in line with Work at Height Regulations.

## MAINTENANCE

Maintenance and repair of rack and pinion lifts or hoists is carried out by our service and maintenance engineers. To ensure that your rack and pinion lift/hoist runs at optimal efficiency and safety,

it is important to follow the manufacturer's maintenance schedule and have all works carried out by competent, trained engineers.

Our maintenance engineers are trained in all aspects of rack and pinion technology and can maintain, repair and carry out mandatory testing of equipment to an agreed schedule. All safety critical replacement parts are sourced from the manufacturer and fitted on site to best practice standards.

## TESTING

Testing of all hoist installations is required under LOLER / PUWER regulations following installation, at regular intervals (six months for passenger and goods hoists and 12 months for goods only and beam hoists) or following modification. These tests are undertaken by our qualified thorough examiners.

## DISMANTLE

Dismantle of hoists often presents more challenges than the installation due to changing site conditions and access routes. A pre-dismantle site visit is usual before our trained engineers start the dismantle and removal of the hoist.





# SAFETY AND COMPETENCE

Our highly skilled team of specialist hoist engineers undergo rigorous training and assessment before they are deemed competent to undertake specific work duties on site.

The company has a fully compliant workforce with all personnel possessing CSCS Training, CPCS Occupation Training, CCNSG Safety Passports, and other Construction Skills- related training along with various manufacturers training courses. Management and supervision is a fundamental aspect in maintaining high standards of competence. All staff undertaking such roles will be SSSTS, SMSTS, and IOSH qualified. Training is on-going and is continually reviewed, assessed, and managed accordingly.



# IPAF HOIST OPERATOR TRAINING COURSE

This course enables participants to become a qualified operator of specified construction and industrial hoists, including safe working practices and hazard management.

Course options include, passenger hoists and goods only hoists and transport platforms.

#### Course aims

The participant will be:

- Educated on the relevant local Health and Safety regulations, standards, codes and guidance for the design, supply, use and management of construction hoists
- Capable of safely operating a construction hoist
- Able to deploy best practice emergency procedures in an event of an emergency
- Capable of carrying out daily checks prior to use

#### Who needs to attend

Hoist operators

#### Candidates

Maximum of 4 people per training session

#### Course Duration

8 hours

#### Qualification

Successful completion leads to an IPAF Hoist Operator Licence for the specified equipment type and the issue of IPAF card

#### Location

Nationwide and can be carried out on site

# PROVIDING RENTAL PRODUCTS AND MANAGED SOLUTIONS INTO EVERY MARKET AND SECTOR



## PLANT & TOOLS

Over 200,000 items of equipment to choose from



## PLANT ATTACHMENTS

The sole UK distributor for several of the world's leading attachment manufacturers



## POWERED ACCESS

The combined height and reach of our equipment can transport you safely over 50,000 metres



## LIFTING

Our solutions have been used on 7/10 of the tallest buildings in the UK



## POWER

5000 rental units - Enough equipment to power a small city



## INDUSTRIAL

On your site to meet the demands where every second counts



## UTILITIES

The UK's largest specialist Utility hire company



## SAFETY & COMMUNICATIONS

The industry's most knowledgeable and experienced specialists in this field



## SURVEY

The UK's industry-leading supplier of land survey and precision measurement technologies



## TEST & MONITORING

Europe's leading test equipment specialists since 1996



## CLIMATE CONTROL

Economical and efficient temperature control and HVAC solutions, with a 24/7 emergency response service



## ACCOMMODATION

24/7/365 call out facility covering 20,000 items on fleet



## TRAKWAY

Award winning engineered access and ground protection solutions



## TRAFFIC MANAGEMENT

24/7 national coverage with operations covered by QEHSS accreditations



## BARRIERS & FENCING

Crowd control and perimeter security solutions



## RAIL

We support the Network Rail and Transport for London infrastructure - keeping the railway moving 365 days a year



## HOISTS

We hold over 10km of mast sections, enough to scale London's Shard building over 32 times



## FORMWORK & FALSEWORK

We are the exclusive hire supplier of MEVA products in the UK



## TRAINING

We have a dedicated Health and Safety training operation to qualify our own people and our customer's people



## LIGHTING

Our state-of-the-art tower lights will keep your worksites safe and secure

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