

CASE STUDY

18 Alimak hoists facilitate the installation of a large arena HD screen

The Alimak Scando 650 is renowned in the construction industry for its supreme flexibility designed to meet the varied requirements of a wide array of construction projects.



The unique construction project for MSG Sphere at The Venetian in Las Vegas relied on 18 Alimak Scando 650 construction hoists which needed to be effectively adapted for the specific tasks involved and the installation of one of the world's largest high-definition screens.

The sphere-shaped arena itself will be a major 17,500 seat entertainment destination for music and sports events, reaching 110 metres (360 feet) in height and 152 metres (500 feet) across. Perhaps the most impressive defining feature of the area is its exterior which will form a video wall of staggering scale, with over 58 km (36 miles) of LED lights and a 250-million-pixel screen with 19,000 by 13,500 HD resolution.

The requirements of this bold construction project required tailored functionality and a wide range of features outside the capabilities of standard construction hoist applications.

The impressive adaptability of the Alimak Scando 650 construction hoist allowed for a comprehensive vertical access system to be developed for the unique needs of the MSG Sphere. Utilising 3D BIM modelling in the design stage, while coordinating with Alimak's proven ability in engineering and production, delivered an outcome suited to these specific requirements.

A rental package of 18 Scando 650 construction hoists provided a tailored and practical vertical access solution for working at height when transporting both personnel and materials. The range of cars supplied will provide ideal flexibility throughout the construction project, facilitating multiple types of attachment processes with varied car sizes, types and entry/exit points. 3D BIM modelling, alongside the expertise of the Alimak design and engineering teams in leveraging the potential of the Scando 650 hoist, offered peace of mind on the successful execution of the bespoke vertical access solution.

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