

## INDUSTRY

Meeting formwork demands on

# Hinkley Point C

### Customer

BYLOR, Balfour Beatty

### Products & Services

TRIO, RUNDFLEX, VARIO, PERI UP



### Overview

Hinkley Point C is one of the largest infrastructure projects in Europe, involving the construction of two nuclear reactors.

## Requirements & Challenges

Temporary works were crucial for the 175-m round concrete slabs that make up the foundations for the main reactor buildings.

Next to the reactors, the fuel (HK) building involved greater consideration around the positioning of ties and props, which helped to avoid clashes with steel plates in the surface. This building also involved some of the trickiest

## Our approach

For the large reactor structures, single-sided RUNDLEX formwork was used with SB-Lite Frames, which transferred loads into the existing structure. RUNDLEX's ready-built panel arrangement demonstrated speedy assembly on site, making it ideal to deliver the shape of the concrete foundation. Pre-existing plates and pits in the ground were avoided by using post fixed anchors instead of cast in anchors.

3D and declashing ensured the plates were avoided. The benefit of this technology is that formwork could be designed around the model provided by the customer.

This ensured the formwork design and steel plates were coordinated, allowing the formwork model to be integrated into the client's models. By doing this, the formwork worked in harmony with other aspects of construction.

column designs on site due to changes in its geometry. As a lot of these structures will be tied into one another, protruding rebar has been a constant challenge for formwork designers.

For the fuel building our formwork is being used to construct the internal walls which change in layout on each of the eight floors. To accelerate construction, a combination of TRIO and VARIO has been used to form the walls.

To enable the columns rise from the ground, VARIO was integrated with RCS climbing platforms. A meticulous approach to the climbing sequence was crucial to avoid RCS rails clashing with the rebar, especially in areas containing denser rebar. This was a complex design that required special components and design calculations from PERI's team in Germany.

One of the earlier challenges during the climbing stage was that there was nowhere to cast the anchors in certain locations. In this case, PERI UP access towers provided entry and egress to the working levels.



**9m-high pour constructed in one hit**

**3D and declashing tools for smooth integration**

How can we help you?  
Contact us by email  
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