CASE STUDY
Galliford Try | Vita Load Navigator

Introduction

Following a tragic lifting incident in July 2022, the lifting industry led by the Lead AP Group has been focused on reducing the direct interaction between personnel and live loads. In April 2023, the' Hands off Step back' incitive was born which evolved into the HOSASS (Hands Off, Step Away Safe Space) campaign. Galliford Try is committed to improving our health and safety and embracing new strategies and technologies to ensure our workforce are protected as much as possible. The A47 Tuddenham and Blofield schemes have several structures with multiple designs each requiring large beams to be landed with precision.

Overview

This case study focuses on the use of Vita Load Navigator (VLN) within the slinging arrangements, of the lifting accessories, to increase efficiency through innovation and drive safer working practices. The VLN is a lifting solution that significantly enhances the control, capability and safety of navigating loads with precision reducing the need of human interaction. It operates by remote control using four independent thruster that spin upto 14000rpm in under a second and has the ability to hold loads, within 1 degree of deviation, in the most challenges conditions providing continuous stabilisation without having to place hands on a load.

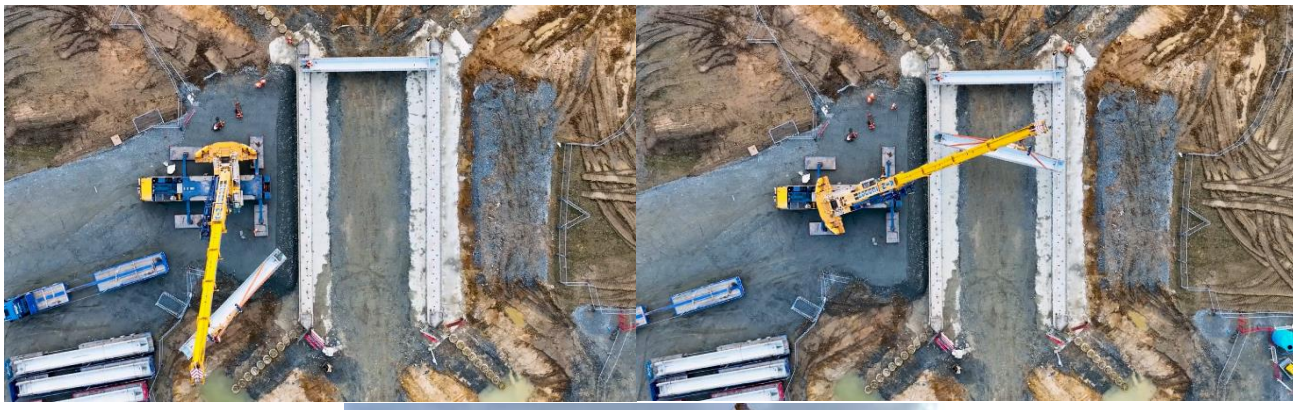
The VLN has a memory function to record precise lift positioning from point A to B reducing the time it takes to position a load and improving overall efficiency.

Challenges

Utilisining a new technology within an already high-risk activity creates a number of challenges.

- Changing attitudes and working practices that have been in place for many years
- Increasing the total lift weight for the crane.
- Ensuring training and familiarisation had been completed prior to commencement of lifting operation.
- Added logistical challenges in ensuring all lifting equipment is avaliable.

Images



Action Taken

Galliford Try assessed the design, weights and sizes of the beams identifying any risks associated with unloading and installing the beams.

- Worked with our supply chain and central support team of technical specialists to identify and research possible solutions to reduce the associated
- Consulted with several suppliers and case studies of the technology proposed.
- Included the technology in the planning process ensuring that safety was always of paramount importance.
- Supported our supply chain to ensure all training and familiarisation had been completed prior to the Vita Load Navigator arriving on site
- Completed the installation of the beams safely on ahead of the scheduled programme for the task duration.

Results

Using the Vital Load Navigator during the installation of precast beams has created several benefits for the produced across many areas.

Safety – Person live load interface has been greatly reduced and only taking place once the load had been secured into its final position. The elimination of manual handling as the use of tag lines for orientating the load has been eliminated. A reduction in the number of people working at height to control the load has also been reduced.

Programme – Utilising the memory function to ensure the orientation of the beam is correct first time every time means there are no delays ensuring the beams are installed into the correct position.

Environmental – By increasing the efficiency of the installation of the beams we had reduced the number of days the crane is required on site leading to a reduction in our carbon footprint

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home safe and well