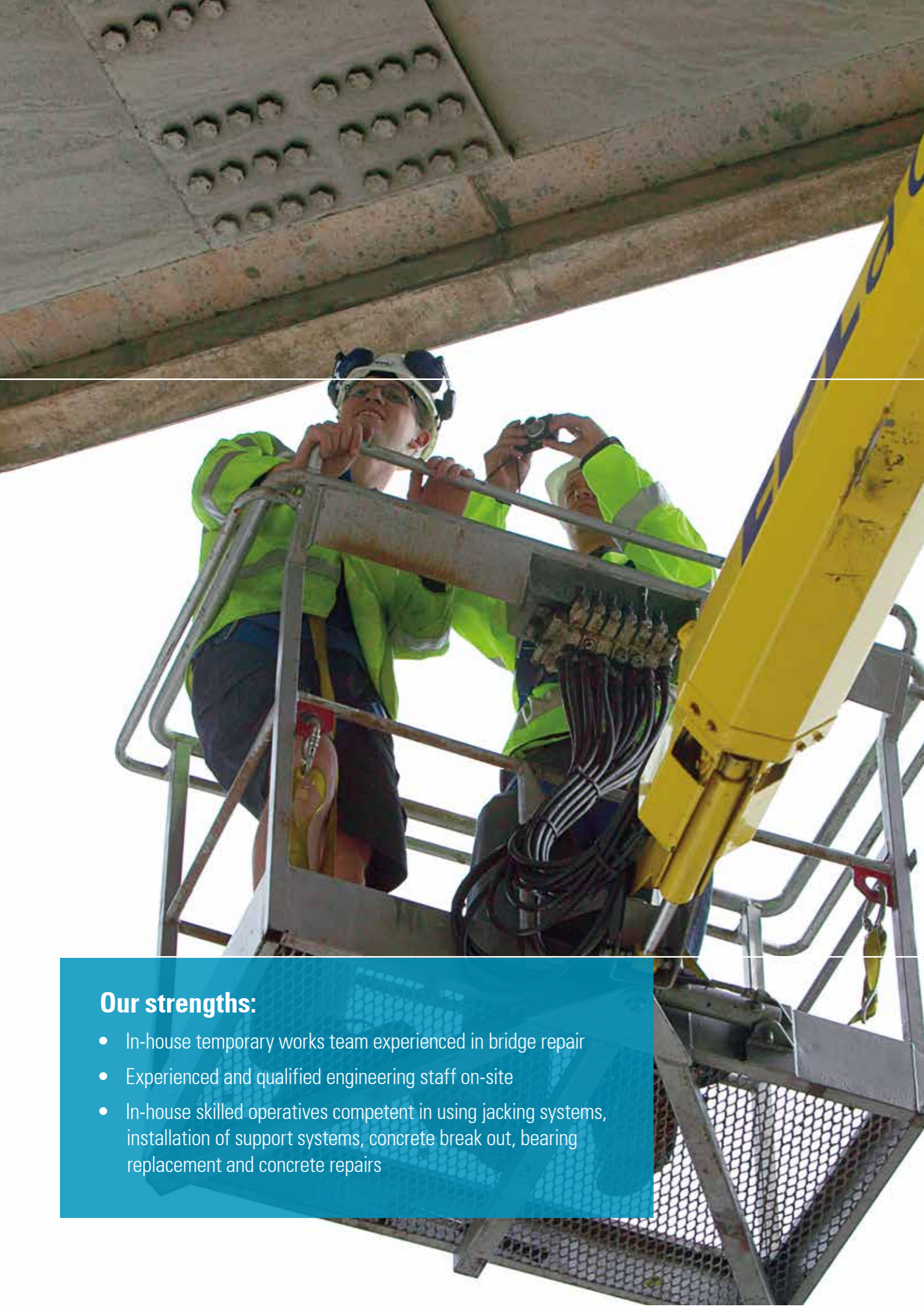




# Bridge bearing replacement

**Balvac**  
Balfour Beatty



Bridge bearings are the components of a bridge which allow for differential movement between the bridge deck, piers and abutments. They allow controlled movement that reduces stress on the structure.

The most common reasons for failing bearings are leaking joints, which can:

- Cause the bearings to corrode and seize thus preventing movement and inducing unwanted stresses within the structure
- Allow corrosion of reinforcement leading to spalling concrete

A combination of unwanted stress and reinforcement corrosion on the bearing shelf can severely compromise the integrity of the structure.



Temporary supports and hydraulic jacks in place prior to bearing removal

### Our strengths:

- In-house temporary works team experienced in bridge repair
- Experienced and qualified engineering staff on-site
- In-house skilled operatives competent in using jacking systems, installation of support systems, concrete break out, bearing replacement and concrete repairs

## Our expertise

We undertake all of the specialist works required for bridge bearing replacement including:

- Temporary propping of structures to release the load on the bearings
- Removal of bearings, often undertaken using hydro demolition
- Installation of new bearings and associated concrete repairs
- Transferring the load on to the new bearings

### Design and planning

Our in-house temporary work team design bespoke, innovative jacking and temporary support systems. They can also undertake category 1, 2 and 3 checks when Approval in Principle (AIP) checks are required for the Highways Agency or Network Rail.

### Delivery

For each project, we produce a fully detailed methodology and documentation to ensure a safe, technically sound and cost effective solution is delivered. Quality is assured by combining this with our in-house management and delivery of works utilising our own skilled workforce.

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