



## Test Rigs

Bespoke solutions, from desktop to full-scale

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## **Osbit isn't just our name, it's our promise.**

Whatever your offshore engineering need, we'll take your problems and own them until we solve them. It's as simple as that.

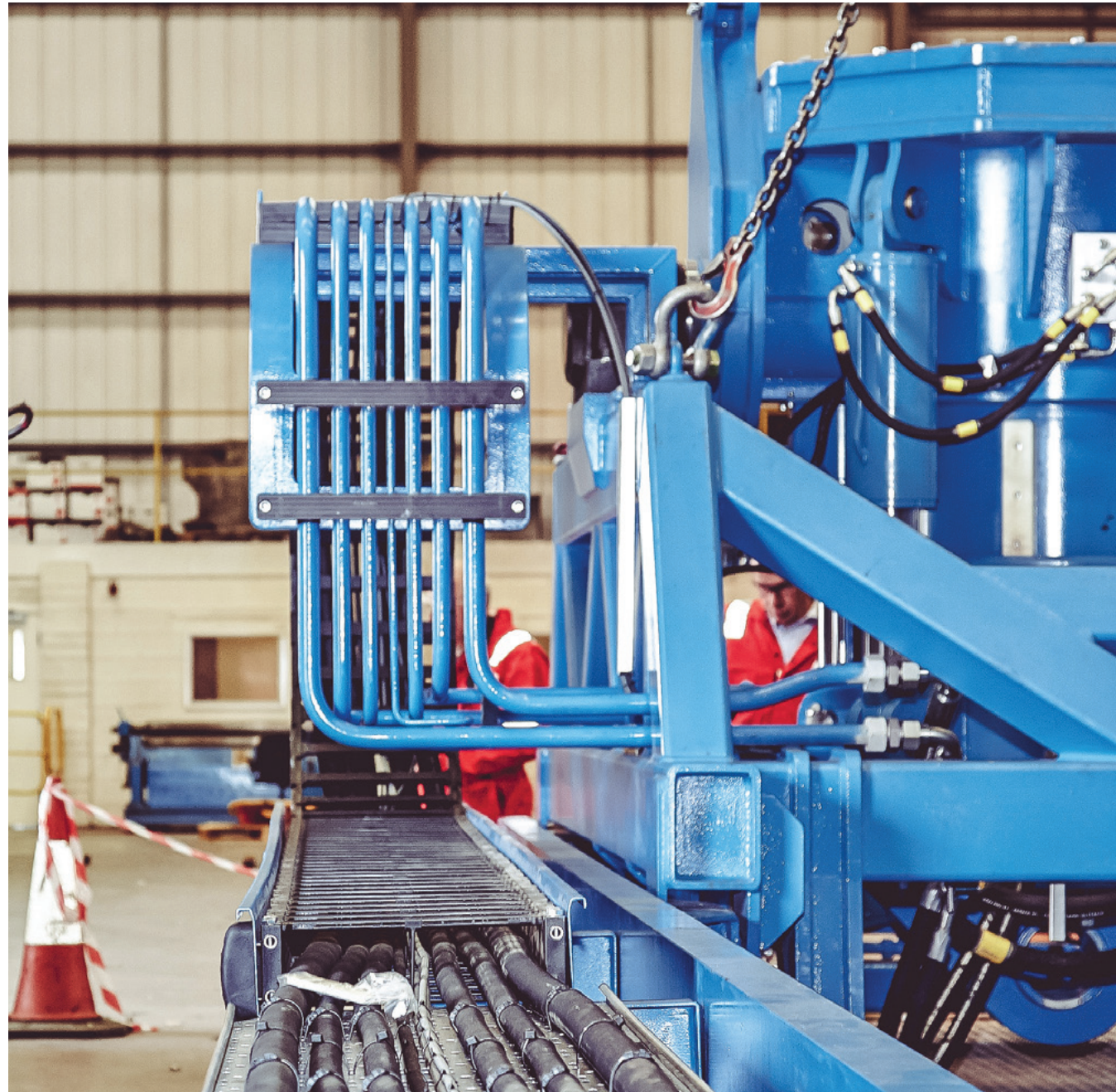
We believe in delivering high-quality bespoke engineering with a flexible service, so whether you're after a turnkey system, an asset upgrade or another form of support, we'll bring it to you On Spec, Budget and In Time, every time.

### **Test Rigs**

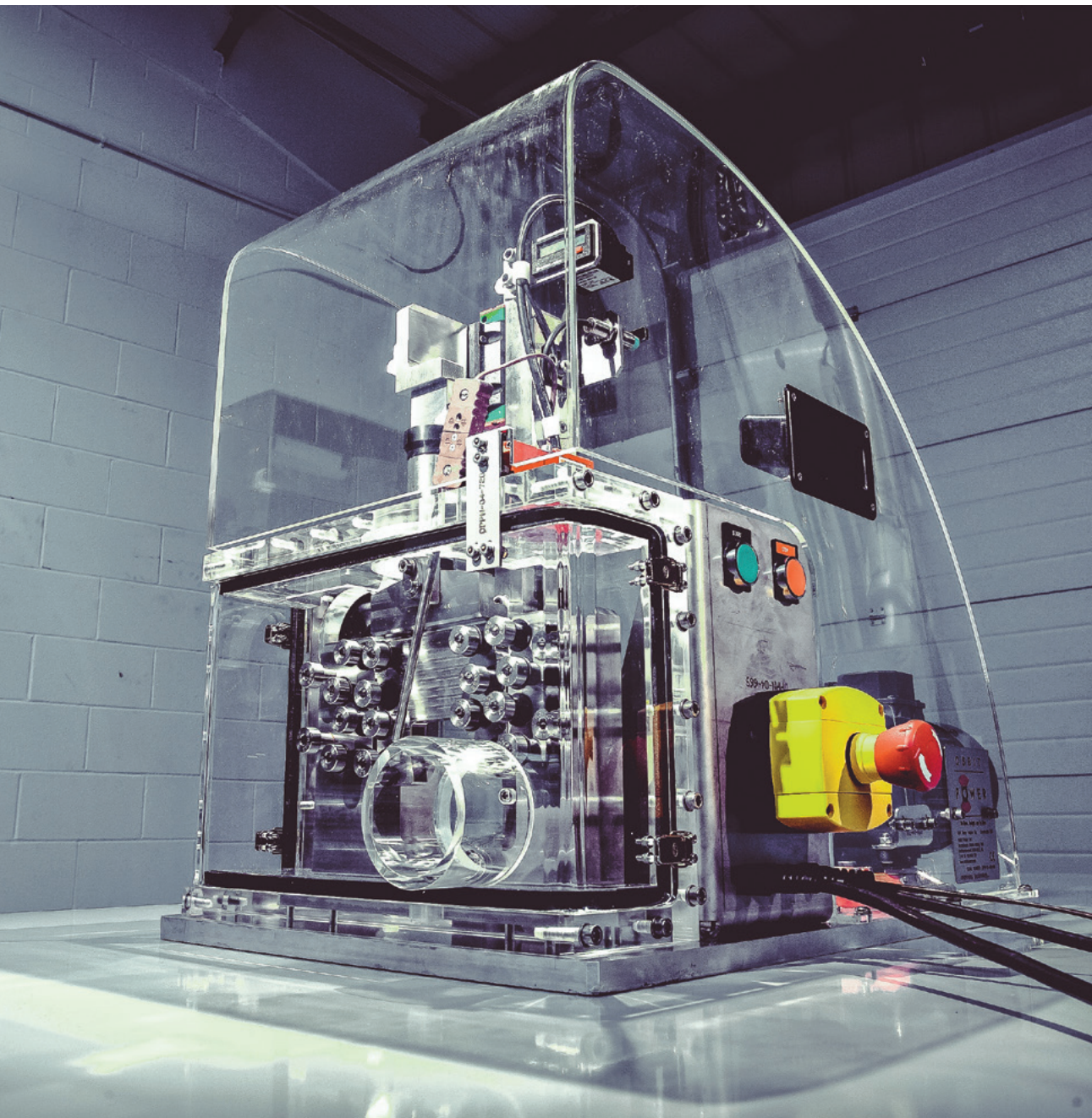
Our breadth of experience covers the design and build of desktop systems, through to full-scale industrial test rigs.

We have supplied test rigs to validate and verify all elements of flexible pipe manufacture. Our scope covers material type approval, through to full-scale flexibles, operational, and destructive testing.

Birdcaging rig for full-scale test pieces







## Expertise

Our test rig capabilities range from turnkey design and build, to modification and upgrades. We can provide:

- Specialist components for new test equipment
- Assembly support and verification of test rigs
- Site installation

## Recent Projects

- Birdcaging test rig for the dynamic bend testing of full-scale pipe test pieces
- Multi-station fatigue testing rig for in-house testing of stainless sheath tubes
- Cold temperature fatigue rigs for high cycle testing of polymer samples



Main: Cold temperature fatigue rig  
Small: FIMT fatigue rig

**Birdcaging Test Rig**

This project’s scope covered the design and build of a bespoke birdcaging test rig, to accomodate the dynamic bend testing of full scale test pieces.

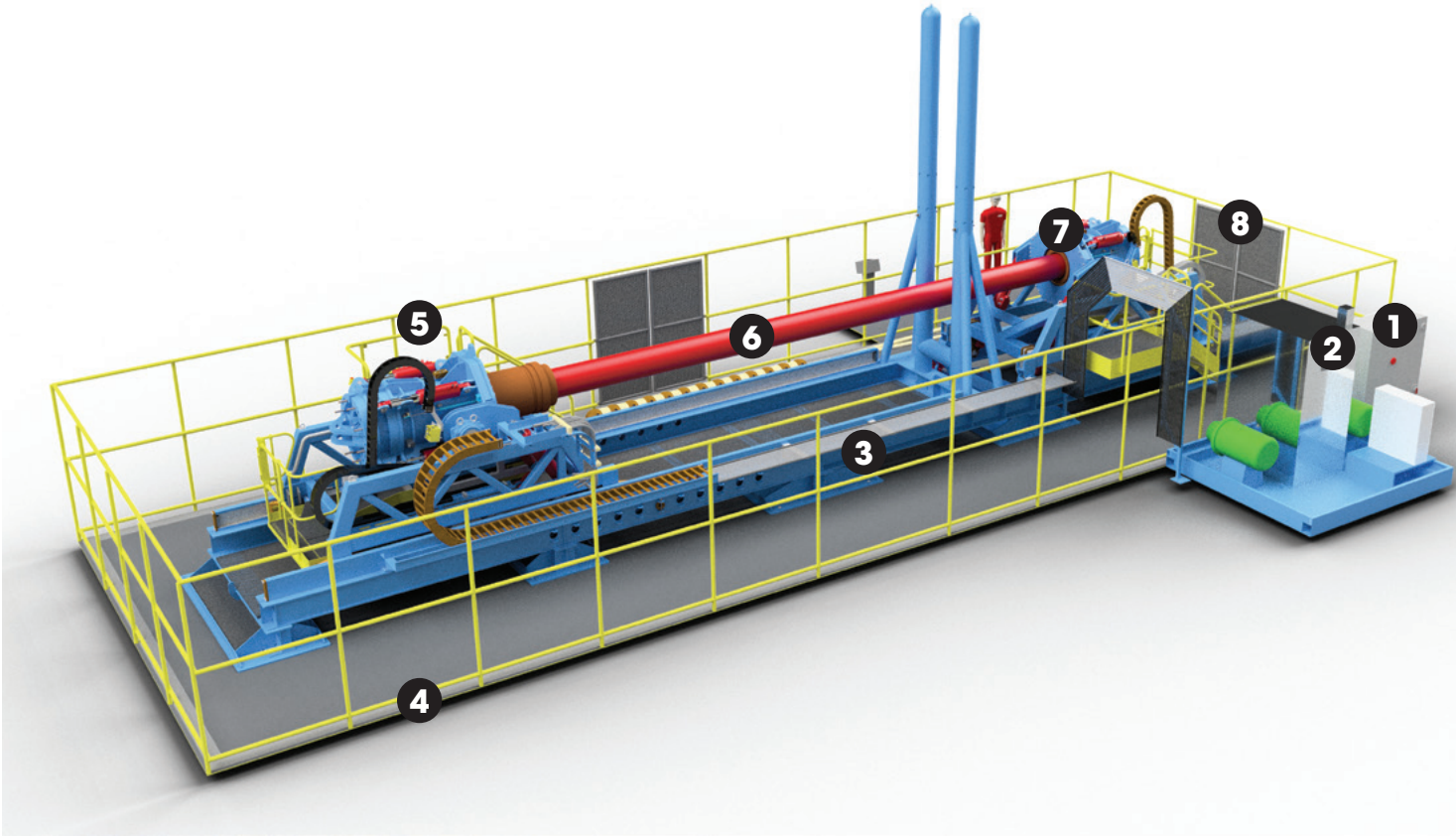
The rig was designed to validate a protection flexible against specific design criteria. The system design was product-focused, being specifically tailored to suit the flowlines it needed to test and the particular cable’s behaviour.

Its test capability covered the full range of testing from operational loading, through to destructive testing, with the bend force being adjustable to the client’s needs.

*A fully bespoke solution, with a product-focused design*

**Key Benefits**

- Fully bespoke system, where no standard solution existed
- Flexible, to cover the full range of testing required
- Automatic testing, freeing up personnel hours



- 1 110kW HPU
- 2 Bespoke Control System with Touch-Screen Interface
- 3 Pin Connection Points, Supporting 300kN
- 4 Fluid Bund
- 5 Moving Carriage
- 6 12” Flexible Pipeline Sample
- 7 Pipe End Clamps 250kNm Torque 2000kN End Cap Compression
- 8 Interlock System