

# PROTECTING PEOPLE, PLANT & PROJECTS

Engineered proof load testing for New Zealand's lifting and marine industries - delivered by Cookes, backed by JWA. The only integrated water load testing and lifting compliance provider in New Zealand.



# National Presence, Local Expertise

Cookes is the leading supplier of lifting solutions and services in New Zealand. We partner with & work for our customers to provide quality products and services that get people home. Our history and legacy in New Zealand spans over 120 years, throughout this period we have established ourselves as a trusted name in the industry.

Our promise of no compromises on quality, ever, emphasize our commitment to safety, traceability & reliability and has lead us to be the go-to choice for businesses across New Zealand.

## Our promise

At Cookes, our purpose is clear: To get people home. To do this we support New Zealand's industries with dependable lifting solutions that prioritize Quality, safety and efficiency.

We foster and deliver on;

- **Safety First:** Ensuring the well-being of everyone involved in our operations.
- **Uncompromising Quality:** Delivering products and services that meet the highest standards.
- **Reliability:** Providing solutions that our clients can depend on.

These values drive us to offer products and services that not only meet but exceed industry expectations.

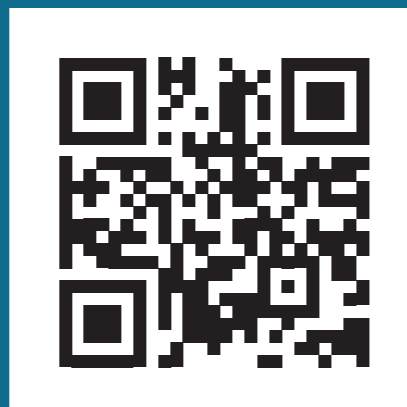


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# Better Together. JWA X Cookes

JW Automarine, or JWA, is a UK-based manufacturer of water load testing systems with a track record dating back to 1972. Through its global rental network across the UK, USA, Greece and the Netherlands, JWA equipment is deployed on offshore, marine, civil and other safety-critical lifting projects worldwide.

JWA designs and maintains its own systems, giving customers the confidence of OEM-backed equipment, standardised inspection discipline and globally aligned technical support. In New Zealand, Cookes brings that capability to market with local deployment, local service support and a trusted lifting and compliance footprint.



## WHAT IS WATER WEIGHT LOAD TESTING?

Water weight load testing uses engineered flexible bags that are suspended and then filled with water in a controlled, progressive way to apply a proof load to lifting equipment or structures. It allows cranes, davits, winches, hoists and fixed structures to be tested in their working position, without the logistics burden of transporting large steel test weights. Because the load is introduced gradually, the method offers a safer testing profile, faster site deployment and less secondary handling equipment in many situations. It is especially well suited to in-situ testing where safety, access and downtime matter.

## How the load test is verified

Water weight load test bags create the load, but the proof comes from measured verification. As the bags are filled progressively, a calibrated load cell is used to confirm the actual load applied during the test. This gives customers a safer loading method, accurate load measurement, and traceable documentation to support compliance and certification. With Cookes, that means engineered water bag testing backed by calibrated load monitoring.

## What we test

We test a wide range of lifting and load-bearing equipment used across marine, industrial, civil and offshore environments. If an asset requires proof load verification, compliance testing, or engineered in-situ load application, there is a strong chance we can assess it. Where needed, Cookes can also review the application and confirm the right test method, bag configuration and documentation pathway before work begins.

- Deck cranes
- Davits & Lifeboats
- Structural & Civil Assets
- Rigging equipment
- Ship Cranes
- Winches & Hoists
- Helidecks

## Compliance standards

Water weight load testing sits inside a broader lifting, inspection and certification framework. The following standards and compliance references are the key signals of relevance in the New Zealand market and in marine or class-led environments:

- WorkSafe NZ (ACOP)
- AS/NZS
- Maritime NZ
- LEEA 051
- DNV
- Lloyd's



Our mission is to deliver high-quality marine lifting and testing solutions through innovative design, a unique manufacturing process, and an unwavering commitment to quality. - **JW Automarine**



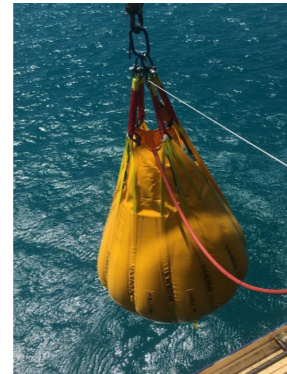
## Our Water Weight Load Test Bags

Our OEM-backed water weight load test bags are suited to everything from routine proof load tests through to larger, engineered testing scopes. The range is designed to support modular bag combinations, allowing us to scale load capacity to suit the application rather than forcing customers into a one-size-fits-all setup.

Model Name	Capacity
0.25C	250kg
0.5C	500kg
1C	1 tonne
2C	2 tonne
3C	3 tonne
5C	5 tonne
10C	10 tonne
20C	20 tonne
25C	25 tonne
35C	35 tonne
50C	50 tonne
55C	55 tonne

### Key Features

- Designed with a 6:1 safety factor (where available), verified through TUV NEL Type Testing.
- Engineered for efficient filling & controlled emptying
- Models available up to 55 tonnes.
- Modular components supplied.
- Removable heavy-duty webbing.
- Shackles and connecting assembly.
- Rubber snubbers for shock absorption.
- 2.5" filling hose with camlock valve (faster filling)
- 4" emptying trunk with pulley assembly for efficient drainage.
- Ready to Use: Delivered fully assembled and ready for deployment.
- Certification: Optional 1:1 test certification.



Low Headroom Test Bags	
LH02C	2 tonne
LH03C	3 tonne
LH05C	5 tonne
LH06C	6 tonne
LH6500C	6.5 tonne
LH12C	12 tonne
LH2500C	12.5 tonne
LH14C	14 tonne
LH15C	15 tonne



## Water weight load test bags vs Steel weights

	Water Weight Load Test Bags	Steel Weights
<b>Safety</b>	Progressive loading helps reduce sudden shock loading and lowers impact risk during the test.	Static deadweight creates a less flexible loading profile and can increase handling risk.
<b>Logistics</b>	Transported empty and filled on site, reducing freight, craneage and mobilisation complexity.	Heavy to transport, handle and position, often requiring more plant and more site coordination.
<b>Accuracy</b>	Uses a calibrated load cell to verify and document the applied load.	Relies on the traceability of the weights themselves; less flexible where exact staged loading is needed
<b>Application</b>	Ideal for in-situ proof testing of cranes, davits, winches and structures, especially in marine or access-constrained environments.	Best suited to fixed test beds or smaller-scale applications where handling steel weights is practical.

## Documentation & Certification

Every deployment is supported by formal records that stand up to engineering, audit and compliance scrutiny. JWA equipment follows a defined inspection protocol on each return-to-stock cycle, and electronic examination certificates are issued per deployment. Applied load is verified with a calibrated Delphi load cell so the test is both measurable and traceable.

ForThe you that means **audit-ready documentation, cleaner compliance records and greater confidence** that the testing method is as disciplined as the equipment being tested.



## Load Cells

### Accurate load verification for proof load testing

Water weight load test bags apply the load. Load cells verify it. By combining engineered water bag systems with calibrated load measurement, Cookes delivers proof load testing that is safer, controlled and supported by traceable data for compliance, certification and engineering review.

## Delphi Load Cells & Load Monitoring

Delphi's aluminium tension cell range gives Cookes a portable, high-strength load monitoring solution for lifting and proof load applications. The standard 103T series spans from 4.75t to 150t, with capacities above 150t available on request, while the wireless 103TWK kit range includes portable options from 4.75t up to 250t, depending on model and configuration. Delphi also offers broader product capability across load pins from 100 kg to 500t, compression load cells, pressure transducers and accessories including handheld displays, large digit displays and alarm systems.

### Why Delphi

Delphi products are designed and manufactured in Queensland, backed by ISO 9001-accredited manufacturing, repair and calibration capability, with a stated 24-month warranty. Delphi's literature highlights high safety factors, rugged designs for harsh environments, wireless and cabled options, and integration with standard components such as shackles and sheaves.

## Our Range

### Wireless Tension Load Cell Kits

Range: 4.75t to 250t, depending on model and configurations

- Ideal for portable proof load testing
- Kits include load cell, handheld readout, battery charger and carry case
- A strong fit for water bag testing where portability, speed and clear readout matter. This last point is an application inference based on the wireless kit design and portable use described in the Delphi literature.



### Aluminium Tension Load Cells

Range: 4.75t to 150t standard, with higher capacities available on request.

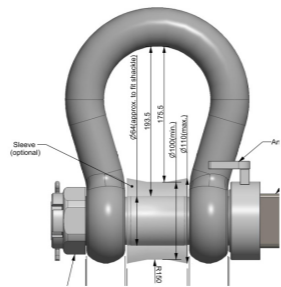
- Designed for lifting, weighing, winching and towing applications
- Lightweight, high-strength aluminium construction
- Well suited where the proof test requires a measured tension load in-line with the rigging. This is an application inference from the product's stated tension-measurement role.



### Shackle Load Pins

Range: load pin capability from 100kg to 500t for engineered applications

- Accurate load verification built into the rigging setup
- Cleaner, more integrated test arrangement
- A strong fit for more engineered or specialist test setups where standard portable tension cells are not the best configuration.



The water bag applies the load. The Delphi load cell proves it. In safety-critical lifting, that distinction matters more than most people realise.

- David Milne, BM Services



# No compromises on quality.

Cookes brings proven lifting expertise to proof load testing with OEM-backed water bag systems for marine, crane, civil and industrial applications. We help customers complete proof load testing more safely, with less downtime and less logistical complexity than traditional steel weights.

We understand lifting, compliance and real site conditions, so we deliver testing that is practical, controlled and audit-ready. With Cookes, customers get a trusted lifting specialist who can help reduce risk, protect uptime and keep projects moving.

## Our capability advantages

### OEM-Backed Technology

JWA is the equipment manufacturer and Cookes technicians are trained to deploy and service the system to a manufacturer-aligned process.

### Inspection-Integrated

Cookes can support supply, inspection, proof load testing and certification through one coordinated provider structure.

### Nationally Deployed

Cookes provides local stockholding and faster mobilisation in New Zealand, backed by access to wider global capability when required.

# Industries we serve

We serve industries where safety, uptime, and performance are non-negotiable. These sectors rely on lifting solutions that work first time, every time – and that's exactly what we deliver.

## Cranes and Lifting



Testing support for new crane installations, major repairs, re-ratings, commissioning events and insurance-driven compliance requirements.

## Ports & Marine



Proof load testing for ship cranes, davits, lifeboats, gangways and other marine lifting assets where uptime, access and class compliance matter.

## Offshore & Energy



Support for offshore, wind, marine energy and other high-consequence environments where engineered load control and documentation are critical.

## Civil Infrastructure



A practical solution for bridge gantries, temporary lifting beams, commissioning-stage structures and major construction assets.

## Contact us

Talk to your local Cookes team about your next proof load test, compliance review or upcoming commissioning requirement. Whether you need a marine proof test, a crane re-certification pathway or a safer alternative to steel test weights, Cookes can help scope the job and deliver a practical solution.

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**Talk to your local Cookes Team**



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