

THE ULTIMATE HYDRAULIC MOTOR TESTING FACILITY

THE RIG

www.plantparts.com/about-us/the-rig-testing-facility



A NEW STANDARD IN HYDRAULIC MOTOR TESTING

The Rig, created by Plant Parts, is a purpose-built hydraulic motor test facility, engineered to redefine standards in the aftermarket.

Designed specifically for Swing Drive and Final Drive motors, it enables testing under true working conditions — delivering a level of accuracy, validation, and confidence that goes far beyond conventional methods.

Developed from the ground up, The Rig is one of the only facilities of its kind in Europe — and potentially worldwide — setting a new benchmark for performance testing and quality assurance.

ALL MACHINE OPERATORS, ALL INDUSTRIES

Construction, Earthworks, Quarrying, Mining, Forestry, Rail, Demolition, Marine & Submarine, Waste Recycling, Material Handling and more.

ENGINEERED FOR CERTAINTY

Unlike conventional systems, The Rig is built on a fully electronic platform and has regenerative capability to optimize energy usage.

It is a dedicated motor test rig with every input/output continually monitored throughout the test cycle making it uniquely suited to the demands of the aftermarket.

The result is a level of testing that exceeds standard industry practice, with each unit validated under load and under conditions that reflect real-world operation.

AN EXTENSION OF OUR EXPERTISE

The Rig is a direct extension of Plant Parts' long-established expertise.

As an independent, family-run business founded in 1991, the company has grown to become one of the UK's largest construction machinery parts specialists, supporting customers in over 100 countries.

With decades of experience across parts supply and specialist workshop repairs — including final drives, swing drives and hydraulic systems — The Rig builds on this foundation, enhancing existing capabilities with advanced, data-driven testing.

It represents the next step in delivering the quality, reliability, and technical confidence that customers have come to expect from Plant Parts.



PERFORMANCE ADVANTAGES



FULLY AUTOMATED, SINGLE- OPERATOR TESTING

Each motor is tested under conditions that replicate real world machine operation, ensuring that swing drives and final drives perform reliably under the stresses of actual use.

The Rig records precise performance metrics and energy usage for every motor, producing detailed reports that allow for traceable quality assurance and compliance with OEM standards.



ADVANCED DATA AND PERFORMANCE REPORTING

To put it simply, The Rig allows us to test the units we repair under real world conditions. picture an excavator climbing a steep slope or tracking out of a particularly boggy worksite... we replicate these scenarios to a higher standard than the manufacturer which means you can rely on us to keep your machine working at peak performance.

PERFORMANCE ADVANTAGES



SIMULATION OF REAL-WORLD OPERATING CONDITIONS

Designed for efficiency, the facility operates a fully automatic test cycle allowing consistent, repeatable results while minimizing human error.

The Rig is capable of testing hydraulic motors up to 340 cc, ensuring every unit meets OEM-level performance, reliability and precision under real-world conditions.”



COVERAGE FOR MOTORS FROM 18CC TO 340CC



LOAD TESTING UP TO 132KW

The Rig can apply loads of up to 132 kW, enabling us to test hydraulic motors up to 340 cc under the full range of operating conditions they experience in the field.

BUILT TO RAISE THE BAR

Installed at our Suffolk facility, The Rig delivers:

- Load testing up to 132 kW
- Real-world simulation of machine operation
- Advanced data capture and reporting
- Fully automated, single-operator testing

At its core is a state-of-the-art electronic dynamometer, enabling precise measurement of performance and energy usage.

Every motor is tested against OEM-level standards, ensuring reliability, consistency, and complete confidence in every repair by our expert team in the only Bonfiglioli-approved workshop outside of Italy.

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The background image shows three men in a workshop setting. Two men are standing in the background, and one is kneeling in the foreground. They are wearing dark blue polo shirts with a small logo. The workshop is filled with various pieces of industrial equipment, including large hydraulic cylinders and hoses. The overall tone is professional and technical.

EXCEPTIONAL SUPPORT FOR HYDRAULIC MOTORS

The Rig is designed to test a wide range of hydraulic motors used in plant machinery across the UK and worldwide.

The Rig ensures precision, reliability, and OEM-level performance for the machines that keep the UK's construction, civil engineering, quarrying, demolition, and waste management sectors moving.



**This one of a kind facility is
available to anyone that may
benefit. from Fleet Owners and
Managers, Repair specialists and
individual owners and operators. ”**

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AN EXTENSION OF OUR SERVICES

DIAGNOSTICS

REPAIRS

CORE EXCHANGE

TECHNICAL SUPPORT

AFTERMARKET, GEN AND OEM PARTS

THE RIG - Advanced testing

This level of testing goes beyond standard batch function testing, ensuring each item performs optimally under real-world conditions.

The system can deliver full load at zero RPM, replicating real-world operating conditions.

The Rig differs from conventional motor test rigs because it **uses a fully electronic input and electronic dynamometer brake.**

Electronic input creates a steadier waveform/output than a combustion engine, enabling more precise data acquisition

Testing under these conditions helps validate performance in **real-world working scenarios.**

TEST, REPAIR, REPLACE, REPEAT?

SKIP THE SEARCH, WE HAVE THE RIGHT SOLUTION FOR YOU.

The Rig was built upon our 35+ years commitment to providing excellent OEM, Genuine and Aftermarket parts plus unmatched workshop services to our local and global customers,



A screenshot of the The Rig website. The header features the text 'STOCK. ME OUT.' and 'quickly.' next to an excavator icon and the 'fdc APPROVED DEALER' logo. Below the header, there are five product category tiles: 'Final Drives', 'Swing Drives', 'Hydraulic Pumps', 'Slew Rings', and 'Recoil Springs', each with an image of the respective part. Below these tiles, there are three checkmarks with text: '2M+ part numbers', 'Guaranteed fit or your money back', and 'FDC quality with long warranty'. At the bottom, there is a section titled 'Heavy Equipment Brands' with a grid of brand names: AIRMAN, ATLAS, BOBCAT, CASE, CATERPILLAR, GEHL, HANIX, HITACHI, HYUNDAI, IHI, KUBOTA, LIBRA, LIEBHERR, LUGONG, LUDOWSKI, SAMSUNG, SCHAEFF, SUMITOMO, TAKEUCHI, and YDGV.

OEM, GENUINE AND AFTERMARKET PARTS

Final Drives

Unrivalled UK stock holdings for over 9000 machine makes and models. We deal directly with the OEM's so you can be sure of a quality product.

Slew Rings

Unrivalled UK stockholdings for over 9000 machine makes and models. We deal directly, so you can be sure of a quality product.

Swing Drives

We have swing drives for more than 150 excavator brands, covering 1000s of models from 1.5 to 40 tonnes. We'll guarantee fast delivery of new, genuine, OEM and FDC brand swing drives.

Hydraulic Pumps

Huge stock of genuine and high-quality aftermarket hydraulic pumps. We also offer a wide range of parts for Kawasaki, Komatsu and Nachi units from stock.

WORLD CLASS WORKSHOP

Our state-of-the-art workshop is the hub for our hydrostatic diagnostics, repairs and reconditioning services.

We are a specialist repair and reconditioning centre for final drives, swing drives and hydrostatic gearboxes. With free UK collection* and inward processing authorisation for the EU, our repair centre receives components from all over the world.

With direct access to millions of parts and detailed technical drawings, we precisely identify faults and find the exact parts to fix them, replacing only what is necessary and reconditioning parts wherever possible to ensure you get the most cost-effective repair.

GET IN TOUCH

With a combined total of over 80 years' experience in this industry, our sales team has the right knowledge to help provide you with the right solution to get your machine working, maximising your uptime!

Get in touch with them here:

+44 1473 820 910

sales@plant-parts.com

Register your interest for hydraulic motor testing online at

<https://plantparts.com/about-us/the-rig-testing-facility/>

