Rig Features

All of our rigs are manufactured in-house by our team of highly skilled engineers .

Our rig builds include the option for a 3 day hands-on training course.

We can provide onsite training, remote training or you can ask us abut individually-tailored training courses to gain an in-depth knowledge of the science and theory behind the equipment.

Rigs also include a 1 year warranty as standard with the option to extend this period with the purchase of a service contract for on-going support.

Additionally, we offer refurbishment and part exchange services.

Rigs can be shipped worldwide direct to your location or collected from our offices in Livingston UK.

Truly Independent Laboratory

At Scaled Solutions, our mission is to be recognised worldwide through our independent specialised laboratories as the leading supplier of bespoke equipment, training, consultancy and provider of solutions to challenges in Production Chemistry, Corrosion and Formation Damage.

We aim to exceed our customers' expectations and improve our service to our customers on a continual basis through our key values: team work & communication, openness & transparency, continual improvement and trust.

Quality, Integrity, Safety and Excellence

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British Assessment Bureau
UKAS MANAGEMENT SYSTEMS
8289
ISO 9001
QUALITY MANAGEMENT

General enquiries: enquiries@scaledsolutions.com
Website: www.scaledsolutions.com

Equipment, Design & Manufacturing

Scaled Solutions design and build all of the test rigs used in their laboratories, from routine testing rigs to complex highly innovative R&D rigs for individuals projects



How our services can help you



State-of-the-art Rigs , Reliable Service and Ongoing Support

Scaled Solutions design and build all of the test rigs which are used daily in our laboratories. We offer unique rig designs which allow the ability to test with high pressures and high temperatures.

Our custom built rigs are made to order and can be adapted and upgraded to meet customer needs. Additionally, our custom made software provides a high level of automation which enables rigs to be easily managed and utilised.

Our rigs are manufactured in-house by our team of highly-skilled engineers equipped with expert knowledge. We provide worldwide support and 1-years warranty with every rig as standard with the option to extend on-going support with one of our service contracts.



Rigs and Equipment

Core Flood Rigs
Dynamic Scale Rigs
Naphthenate and Emulsions Rigs
Asphaltene Flow Rig
Dual Purpose Rigs

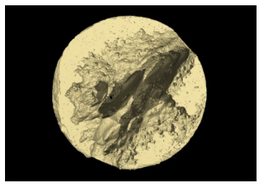
Corrosion Test Equipment
Jet Impingement Apparatus
Wax Flow Loop
Product Stability Loop
Compatibility Cells
High Pressure Autoclaves
Mixed Gas Distribution Manifolds

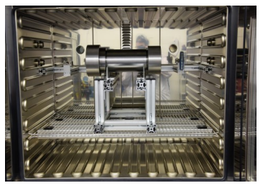
Scaled Solutions

Core Flood Rig

Scaled Solutions' Core Flood Rigs are state of the art equipment which allows high quality core analysis testing at high pressure and temperature. Equipment specification can be tailored to client needs with our standard rigs starting from 2,500 psi and 180ºC and upgraded rigs allowing testing up to 5,000 psi.

Our rigs are extremely functional and reliable, following the same design principles as rigs used in Scaled Solutions laboratories on a daily basis.





The rigs utilise custom designed logging software which provides real-time data collection.

Rig design incorporates SSL core holders designed to give flexibility of core length and options for improved design features.

Additionally, our rigs are designed with a strong emphasis on safety, including multiple features to prevent over-pressurisation

Rig Specifications

- Rig specification starting from 2,500 psi and 180ºC. Upgraded rigs allow testing up to 5,000 psi
- Confining pressure up to 6000psi as standard
- Corrosion resistant Alloy 600 or Hastelloy C276 flow lines
- Hastelloy C276 wetted core holder with interchangeable ends for 1" or 1.5"
- Sliding stem core holder or fixed length core holders
- 6" long core holders as standard up to 12" for EOR applications
- Separate brine and oil injection pumps
- Confining pressure hand pump
- Trolley or bench mounting available
- Equipment fully commissioned before installation at client site
- Full training and comprehensive documentation included

Rig Specifications

- Rig specification rated up to 1400 psi and 100°C
- Unique rig design
- All wetted parts manufactured from corrosion resistant alloys
- Glass test separator to allow virtual assessment of test result
- Crude Oil and Brine can be sampled separately for further analysis
- Full training and comprehensive documentation included

Dynamic Naphthenates Rig

The Dynamic Naphthenate Deposit rigs have been designed and fabricated in-house within Scaled Solutions and give a new and more realistic approach to standard naphthenate bottle testing.

Our unique design allows the user to mix brine and oil at high shear rates, allowing naphthenates to form if present.

The rig operates at conditions up to 1400 psi and 100°C and is designed with glass separator cells to allow visual assessment of emulsions, as well as differential pressure to determine deposits of naphthenate solids.

Dynamic Asphaltenes Rig

Scaled Solutions' Dynamic Asphaltene rigs boast optimised designs allowing the mix of oils and assessment inhibitors. Our Asphaltenes testing can be carried out using live crude samples or "re-livened" dead crude (restored and re-equilibrated to reservoir conditions) including new infra-red monitoring.

Equipment specification can be tailored to client needs with our standard rigs rated up to 2500 psi and 180°C.

Our rigs follow the same design principles as all of our rigs

Rig Specifications

- Rig specification rated up to 2500psi and 180°C
- Unique rig design
- All wetted parts manufactured from corrosion resistant alloys
- Examining deposition, chemical inhibition, mechanisms and compatibilities
- Full training and comprehensive documentation included

** Bespoke with a variety of designs available*

Dynamic Scale Loops– DSR 5000

Scaled Solutions' state-of-the-art Dynamic Scale loops allow high quality testing of scale inhibitor performance at high temperature and high pressure.

The rig holds a modular design to allow equipment specification to be tailored to fit client needs with various upgrade options. The rig operates at standard conditions of 5,000 psi and 200ºC with upgraded rigs allowing for testing up to 10,000 psi.

Our rigs are manufactured in accordance with the same principles of rigs used in Scaled Solutions labs on a daily basis.

The rigs utilise custom designed logging and control software which allows the rig to be operated with minimal supervision 24 hours a day.

The DSR 5000 offers bespoke manufacturing for client requirements.



Rig Specifications

- Rig specification starting from 5,000 psi and 200ºC. Upgraded rigs allow testing up to 10,000 psi
- 3 HPLC pump set-up with automated pump control including cleaning
- Monel/Alloy 600 hot-flow-system corrosion resistant components
- Trolley mounted frame or bench mounting available
- 1/16" scaling coils in both 1m and 3m lengths
- PC for data acquisition, logging and control
- Pre-programmed test sequences
- User friendly system
- Integrated safety features to control rig temperature and pressure
- 1 Year warranty period
- Full training and comprehensive documentation included

** Additional options are available:*

Rig Specifications

- Rig specifications up to 3,000 psi and 150°C.
- 3 HPLC pump set-up with automated pump control including cleaning
- Monel/ Alloy 600 hot-flow-system corrosion resistant components
- Trolley mounted frame or bench mounting available
- Automatic switching valve for cleaning system
- PC for data acquisition, logging and control
- Pre-programmed test sequences
- User friendly system
- Full training and comprehensive documentation included
- Full commissioning report supplied to prove system efficiency
- 1-Year Warranty Period

Dynamic Scale Loops– DSR Light

The state-of-the-art DSR Light is Scaled Solutions' new cost effective model which incorporates the same high quality materials and enables high quality testing of scale inhibitor performance at high pressure and high temperature.

The rig holds a modular design to allow equipment specification to be tailored to fit client needs our reduced cost rig operating at standard conditions of 3,000 psi and 150ºC.

Our rigs are manufactured in accordance with the same principles of rigs used in Scaled Solutions labs on a daily basis.

The rigs utilise custom designed logging and control software which allows the rig to be operated with minimal supervision 24 hours a day.

Our rigs are reliable and functional with a strong emphasis on safety, with multiple features to prevent over pressurisation.



