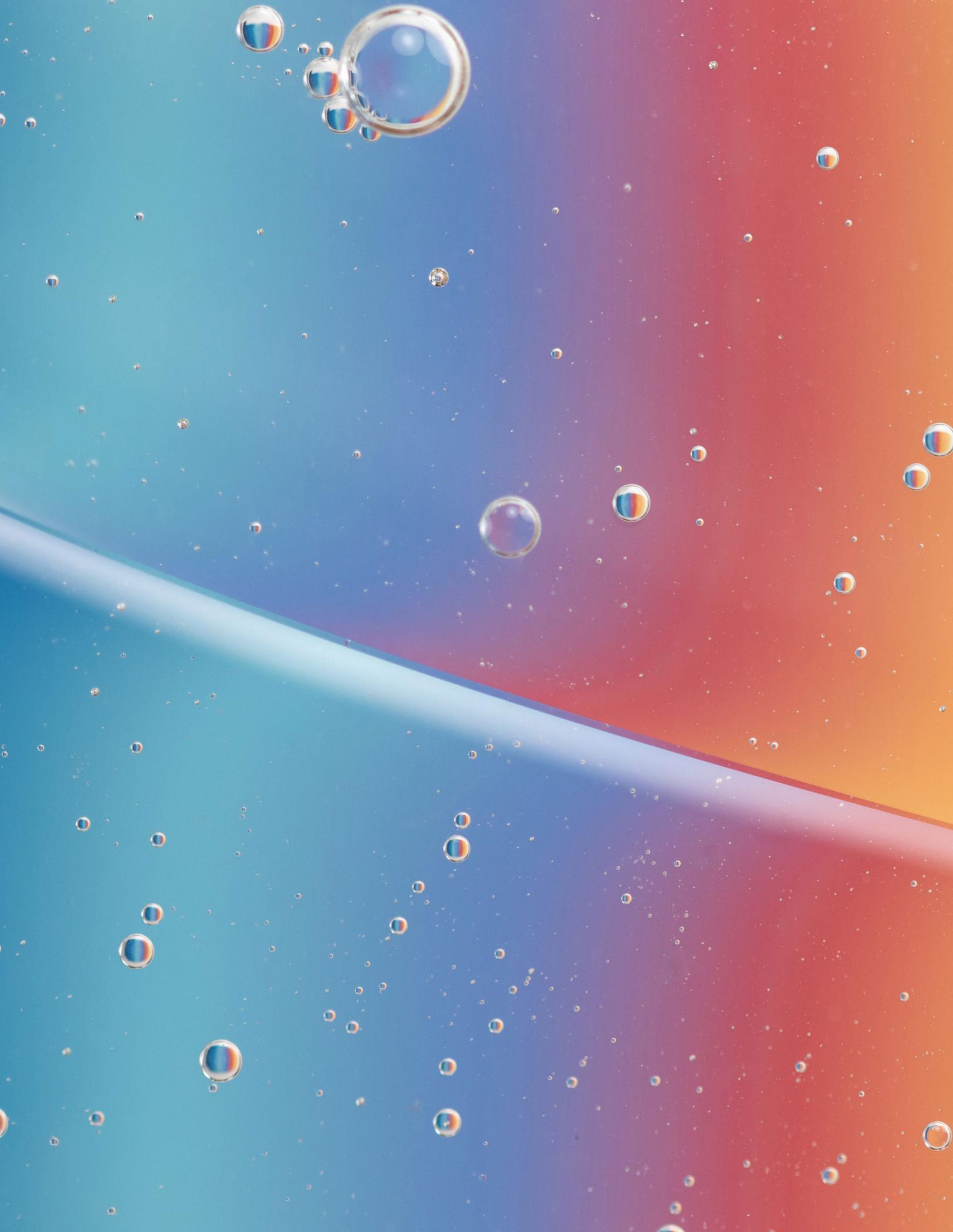




# Constructing Clear Solutions for Offshore and On Land

Corporate Brochure





**A global provider of service and rental  
delivery excellence.**

OSSO is a value focused provider of specialist fluid temperature control and separation solutions, helping to provide expertise and innovation to the industry's most challenging environments.

We have a wealth of experience offering sale, rental, design, build and commissioning of offshore and on land solutions, as well as around the clock support to maintain, calibrate, and service equipment to achieve ultimate efficiency.

We go beyond just service rental, drawing on our decades of learned knowledge across the fluid management process we provide deeper insights to deliver greater results with either tailored integrated offerings or standalone services.

Our agile and flexible approach means we have been successfully supporting customers across several sectors including:

- \_ Oil and gas
- \_ Geothermal
- \_ Construction
- \_ Food and beverage
- \_ Industrial

## Our Services

Our customers benefit from a range of integrated and standalone services, enhanced by years of learned knowledge and technical expertise.

**Consultancy**

- \_ Technical expertise
- \_ Design and development
- \_ Fluid and fuel analysis
- \_ 50+ combined years of learned knowledge

**Fluid Temperature Control**

- \_ On and offshore mud coolers
- \_ AutoCul – remote monitoring technology
- \_ Certified partner
- \_ Zone rated
- \_ Extensive rental fleet

**Fluid Separation**

- \_ Decanter, disk stack separators, filters
- \_ Extensive rental fleet
- \_ Tailored solutions
- \_ ATEX rated
- \_ Zone 1 & 2 rated
- \_ Compliant with global standards

**Repair and Maintenance**

- \_ OEM spare parts
- \_ Servicing
- \_ Repairs
- \_ Refurbishment
- \_ Maintenance programmes
- \_ Equipment prepared includes:  
PHE's, disk stack separators, decanters

# Our People Are What Sets Us Apart

## Trust

We believe in our people, knowledge, and our expertise.

## Integrity

We are honest and transparent in everything we do.

## Commitment

We are dedicated to health and wellbeing of our people and surrounding environments, and fiercely loyal to our customers.

## Our Values

AT OSSO, we foster a culture of openness, transparency and quality, working in partnership with our customers, supply chain and industry partners to help enhance project delivery while supporting long term environmental goals with high performance results.

## Understanding the Problem

Understanding the composition and physical properties of any waste stream is the starting point for every separation process.

Originating from many sources, waste streams vary widely and failure to analyse these streams correctly can result in misdiagnosis, poor or inadequate separation levels, which can lead to higher levels of contaminated fluids.

At OSSO, our in-house technical consultants undertake all the necessary laboratory testing programmes ahead of the design and implementation of any separation package. These routinely include but not limited to:

- \_ % suspended solids
- \_ Particle size distribution
- \_ Oil-in-waters
- \_ pH
- \_ H<sub>2</sub>S
- \_ BOP (biochemical oxygen demand)
- \_ COP (chemical oxygen demand)

### Laboratory Centrifuge Spin Tests

Our hot spin centrifuge is a specifically built laboratory test tube centrifuge enabling separation at temperatures up to 100C°. By using this equipment, it is possible to simulate the effect of mechanical separation by a decanter or disc stack centrifuge. From these results we can:

- \_ Confirm whether the product can be separated by centrifugal force at a given temperature
- \_ Choose the right full-scale equipment
- \_ Predict performance and capacity and optimise process conditions

Providing You The  
Clarity Needed with  
Our Fluid and Fuel  
Analysis Programmes

Design. Build. Install. Commission.

By harnessing our knowledge and track record originally founded in oil and gas we actively support the global energy sector as well as several other industries including industrial, construction, marine and food and beverage markets.

#### Design. Build.

We design scalable separation and heat transfer systems for CAPEX and rental requirements for offshore and on land applications. Our knowledge and experience include:

- \_ Fuel separator skids
- \_ Mud coolers

#### Install.

Our team of experts ensure equipment is installed safely and correctly providing you assurance of operational readiness and longevity of service. Be worry free and let us:

- \_ Install the equipment and its component parts
- \_ Plan future maintenance schedules

#### Commission.

Following installation and prior to hand over, we manage all critical matters to ensure both the equipment and process function in accordance with regulations and expectations.

We will:

- \_ Run tests and monitor performance
- \_ Provide onsite training
- \_ Supply a comprehensive handover
- \_ Maintain correspondence post-handover

Providing  
Assurance and  
Peace of Mind

# Producing High Performance Results

## Fluid Separation

The role a centrifugal separator plays is critical for safe and effective operations. Across multiple industries our team of experts coupled with an extensive rental fleet means we deliver the high performance results you expect.

With our in-depth knowledge in fluid separation applications, you will have access to a comprehensive portfolio of expertise and extensive selection of separators. Our fleet and applied knowledge range from basic separation requirements to high volume, complex liquids, and solids.

### **Decanters (liquid/solid separation)**

Our fleet of decanter centrifuges can be applied for any solid's removal, sludge dewatering or barite recovery applications and can deal with fine and ultra-fine solids.

### **Disc Stack Separators (liquid/liquid/solid separation)**

Available as stand-alone modules or to compliment an existing chain of separation equipment our extensive fleet is suitable for cleaning water, hydrochloric oils, fuel, and lube oils. Our modules are designed and built in DNV frames and in accordance with all current standards.

- \_ In-depth knowledge of separation applications
- \_ High performing separators
- \_ Extensive rental fleet
- \_ Globally deployed first class technical support
- \_ Comprehensive training plans
- \_ Superior repair and maintenance programmes and spare parts

# Keeping Things Cool The Right Way

## High Volume Mud Coolers

Our experience which spans more than 500 HP/HT wells means not only do we fully comprehend and understand the high-risk complexities and challenges when undertaking such campaigns, but we have the learned knowledge and the proven field technology to effectively support them.

### Offshore

Deck space can be limited which is why our in-house modelling software ensure we propose the optimum solution based on individual conditions including sections, circulating volumes, and mud rheology. Our mud cooler packages come complete with black flush Manifold and monitoring system for both temperature and pressure with a duplex filter skid to protect the mud cooler and remove any foreign objects from the feed.

### Land

We design land rig mud cooling systems to cool drilling mud at surface in the harshest of environments where ambient temperatures can exceed 52C° with high humidity and where downhole temperatures are in excess of 165C°.

By combining our high volume (1000gpm) high cooling surface mud coolers with cooling towers or chiller systems we help clients decrease non-productive time (NPT), enhance their drilling operations and improve working environment for rig crew.

With units deployed around the world our capabilities expand beyond the rental of a system and include site survey assessment, design and build, commission and installation, and repair and maintenance services.

- \_ Globally deployed units
- \_ Superior technical service
- \_ Impartial advice
- \_ Recognised supplier
- \_ Integrated offering

## Technology Built with Purpose

### AutoCul

Developed fully in-house, our unique system, AutoCul provides continuous remote temperature control monitoring offering improved control of the surface mud temperatures and providing greater accuracy with instant data reporting.

### Benefits

Implementing such a system will enable you to:

- \_ remove risk of overcooling by maintaining a consistent mud temperature at surface
- \_ increase efficiency of wells fluids by supporting mud rheology
- \_ reduce operator interface with remote data monitoring
- \_ improve accuracy of performance results by maintaining a constant temperature within 0.6°C
- \_ support HSE targets by reducing harmful vapours in mud system
- \_ improve well control by controlling mud weight

## Repair and Maintenance

AT OSSO, we pride ourselves on our first-class service and delivery, ensuring we are always on hand for any event planned or otherwise.

Our well-established track record managed by a service team with over 50 years' experience is what sets us apart.

Supporting our clients globally OSSO has been servicing and refurbishing plate heat exchangers, decanter centrifuges and disc stack separators with a well established supply chain in place with all major OEM's. We have the capabilities and expertise to manage the most challenging of projects both offshore and on land.

Our proactive approach to maintenance planning reduces the risk of unplanned stoppages and costly project delays. We support a wide variety of industries including oil and gas, petrochemicals, food and beverage, industrial and construction and marine.

From plate heat exchanger (PHE) to decanter centrifuge to disc stack separators we repair, refurb, and maintain them all to the highest standard.

- \_ Decommissioning of PHE
- \_ Trouble shooting on and offshore
- \_ UHP cleaning of plates
- \_ Plate inspection and testing
- \_ Commissioning
- \_ Frame refurbishment
- \_ Complete unit rebuild and pressure testing
- \_ Planned and unplanned on-site visits
- \_ Change out of rotating equipment
- \_ Unit operation
- \_ Repairs to worn out discharge ports
- \_ Full servicing – intermediate and major as per OEM recommendations
- \_ Spare part supply
- \_ Service management planning
- \_ Process/machine optimisation
- \_ Electrical and control panel fault finding
- \_ Fully bespoke PLC upgrade extending life of unit
- \_ Training

Guaranteed  
Quality  
Service





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