



DSL

A JOULON COMPANY



Introduction to DSL	Page 03
Our People	Page 04
What Sets DSL Apart?	Page 05
Our QHSE	Page 06
Offshore Construction Services	Page 08
Drilling Package Upgrade and Refurbishment	Page 10
Land Rig Repair, Refurbishment and Upgrade	Page 12
Derrick Upgrade Projects	Page 14
Derrick Assembly & Outfitting	Page 16
Rig Building Crews	Page 18
Offshore Personnel	Page 20
Floating Pole Operations	
Specialist Solutions	Page 22
Drilling Derricks, Masts & Substructures	Page 24
Mast and Substructures	
Manufacture of Drilling Structures	
Inspection & Recertification Services	Page 28
• Derrick & Mast / Substructure Inspections	
• Dropped Object Surveys	
• Lifting Equipment Surveys	
• Water Test Bags	
• BHA Inspection Services	
Engineering & In-House Project Services	Page 34
• Engineering & Design	
• Project Management	
• Fabrication	
Decommissioning	Page 36
Derrick & Land Rig Accessories	Page 38



Introduction to DSL

DSL is an upstream service company providing the Industry with a diverse range of products and services, mostly associated to drilling structures and systems, worldwide.

Either way, whether you need a turnkey solution, specific services or products from us, you know that not only are you engaging a vendor with a significant depth of experience and expertise, you are engaging a vendor that has the range of industry accreditations and API licences that leaves no doubt about our standards to the fundamental issues such as quality, HSE and integrity of service.

Combine this with the fact that our offshore construction & site personnel are some of the most multi-disciplined, flexible, efficient and highly productive that you will find anywhere in our industry, and you know that you are engaging a contractor with industry credibility and track record.

However, don't take our word for it, read some of our customer commendations within this brochure to see what impression we have left with them on recent projects.

Visit www.derricksd.com for more information about us.

We are sometimes asked “what are you”?

- A Design House?
- A Fabricator?
- An Offshore Contractor?
- An Inspection Company?

Our people are highly trained, knowledgeable and experienced

So what makes our people stand out against the rest? Well, there are a combination of factors as to why.

The fact that we continuously work for the upstream sector where in most instances our clients need us to arrive on the asset, complete the workscope safely and efficiently with the minimum downtime and allow the client to resume productivity, has conditioned us to consistently perform under pressure, without any compromise to safety or quality.

The fact that our site personnel are involved in a broad range of activities working for DSL. One project might be a rig upgrade, another might be a derrick assembly project, or a third mud pump installation. Due to the diverse range of services and support we provide our customers, our personnel gain a very wide knowledge of various workscopes, making them some of the most flexible and adaptable workforce you could hope for on your rig/installation.

The fact that we retain our site personnel also ensures that their learning and understanding of our services continues. Many of our personnel have worked with us for 20 years or more and you cannot put a value on those types of long term working relationships.

Our people know that we regard their safety as one of the single most important element of our operations. They are supported by one of the most comprehensive safety management systems in the industry to afford them the maximum protection, always. Our concern for their welfare has created a mutual trust over the years and we enjoy a very pro-active approach to HSE between our site personnel and our management.

We are proud of our personnel and receive a high level of positive feedback from our clients which justifies our commitment and belief in our personnel.

Recent feedback included:

We would like to nominate the DSL offshore team a safety award. The award is not given lightly but is awarded by recognition of those who have shown they are prepared to give that extra mile in performance and attitude. The areas we have noted are as follows:

- Excellent overall safety performance in carrying out working at height and ensuring safe working zones.
- Full participation and feedback in safety/risk assessments associated with their particular areas of work.
- Being adaptable in undertaking changes of activities to suit schedule, operational demands and maintaining overall destruct scopes.
- Excellent relationships and interfaces with other discipline trades.

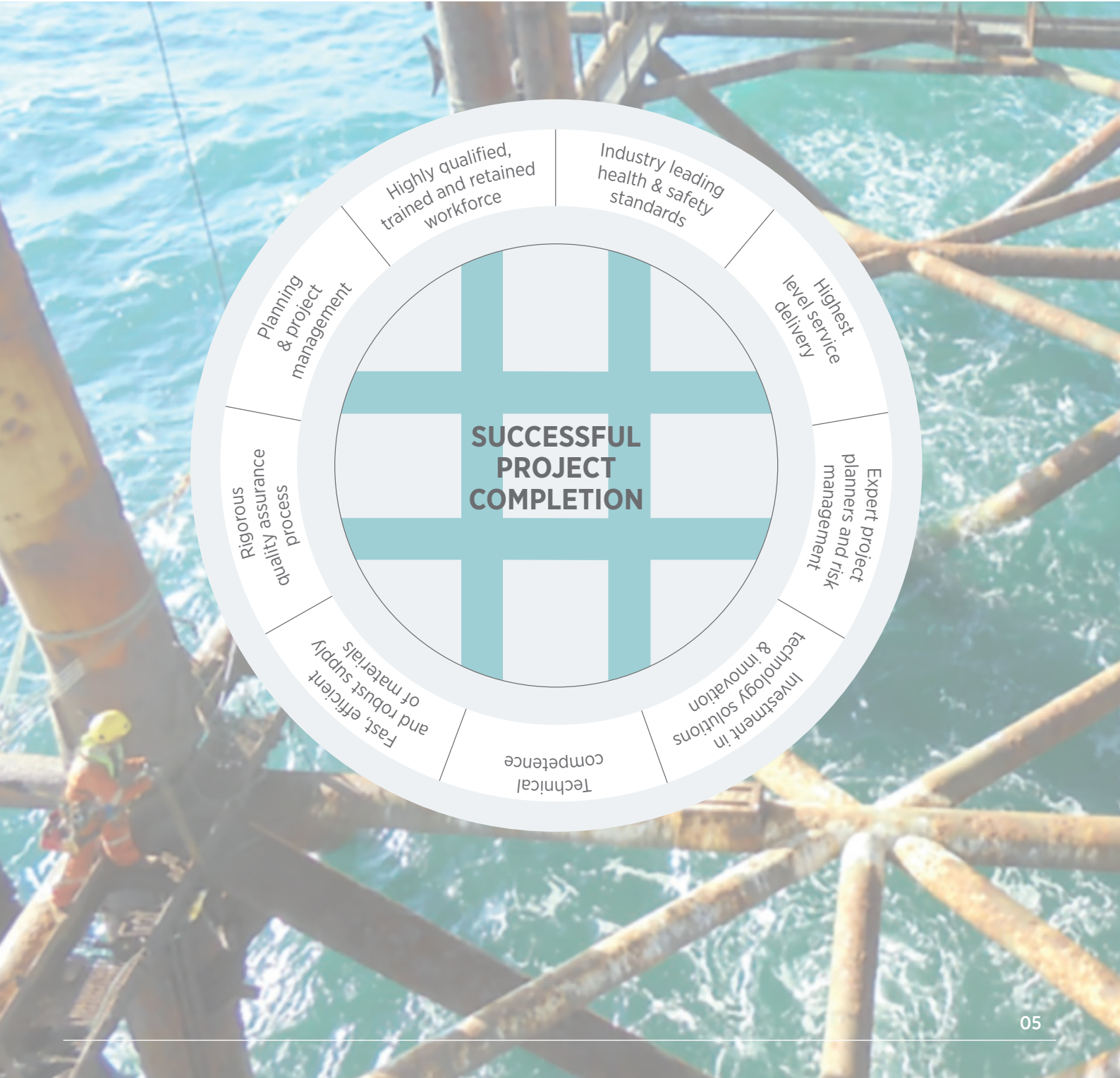
Construction Manager, Talisman Energy

Together, our people, knowledge, qualifications and depth of services combined with our commitment to HSE, makes DSL the industry leader

DSL has a remarkable record of successful project delivery and completion, due to 9 factors which combine to create a single factor that sets us apart

That DSL factor is:
The ability to understand clients' operational priorities while planning, designing then integrating highly specialist technical support and supply with safely managed, high quality service delivery.

This is supported and evidenced by our consistently strong performance in FPAL benchmarking. Further information can be found in our QHSE pages at www.derricks.com



Our training and competency system for rig builders excels anything that anyone has attempted in our industry.

Our QHSE & Integrity

The safety of our personnel remains paramount

Our QHSE

DSL is dedicated to complete integrity of its operations and this is reflected in the commitment to quality and HSE.

DSL operates a comprehensive quality management system which complies with both ISO 9001:2015 and API Specification Q1 9th edition 2013 plus addendum 2016.

DSL are committed to ensuring the safety of their own employees, clients employees and the general public.. As part of this commitment DSL safety management system is registered to BS OHSAS 18001 2007.

DSL understand that they have a duty of care to ensure their excellent environmental performance is maintained across all its business operations and strive to provide the necessary organisation, commitment and training to meet this obligation. The DSL management team firmly believes in, and is committed to monitoring and improving environmental performance, pollution prevention and environmental protection.

Subsequently DSL operates and adheres to an environmental management system certified to ISO - 14001- 2004.

The fact that most of our work is carried out at height, demands that our Safety Management System, which is in accordance with HS 65 (G), has to be as absolutely comprehensive and protective of our personnel as possible.

The progressive development of our procedures and method statements will continue to evolve as we pursue the ever decreasing element of risk. The significant amount of height working man days we perform each year without incident is a testament to both the investment to date and our continued diligence toward the protection of our personnel.

As part of our commitment to QHSE, DSL has invested in the design and manufacture of its own training derrick to train its site personnel. Our training and competency system for rig builders excels anything that anyone has attempted in our industry - this provides us with the safe knowledge that we are doing everything possible to protect and enhance the safety of our people, whilst giving you the confidence to know that the people we supply to you know exactly what they are doing, and are doing it safely.

Every time you introduce a vendor into your operations you introduce the possibility of the import of risk. DSL's track record and continued focus on HSE gives you the confidence that in choosing DSL you are mitigating that risk to a minimum.

DSL - Dedicated Safety Leaders

DSL – Drilling structures expert confirmed by API accreditations and driven by the highest international standards



Our Offshore Construction Services form a key part of our core business activity

Our Offshore Construction Services

DSL provides Drilling Contractors, Operators and Main Contractors with comprehensive offshore construction services, this includes but is not limited to;

- Rig Upgrade/Refurbishment Workscopes
- Supply of multi disciplined construction crews
- Supply of black trades and technicians

Structural, Mechanical, Electrical and Piping work scopes represent some to the typical areas that we provide support or full project control, depending on the requirements of the customer.

Case Study

Our work for Apache North Sea over the last 5 years represents a good example of our versatility of a broad range of upgrade and refurbishment work scopes. As you might expect, during this time, other contractors have been afforded the opportunity to match our performance and expertise, but we are delighted to say that Apache has consistently found us to be the most efficient and economically superior option.

During this time we have carried out the upgrade, modification and refurbishment of the drilling packages on four platforms in the field, from initial survey, engineering and detailed design, fabrication and/or procurement of materials and equipment, through to the site work scopes and commissioning/close out.

The workscopes on this project have included the design, manufacture and installation of the following on the four platforms;

- Structural Analysis & Verification of Derrick Capacity & Refurbishment of same
- Design, Fabrication & Installation of Samson Barrier
- Supply & Installation of Third Mud Pumps
- Design, Procure & Installation of Replacement Drag Chains for Rig Skidding
- Design, Procure & Install Variable Frequency Drive System
- Design, Fabricate & Install Diverter Lines
- Conversion of Mud Return System to OBM
- Conversion of Brine Loading System
- Conversion of Mud Transfer System
- OBM HVAC Upgrade-Integration
- Procure & Install Cuttings Re-injection System & Associated Piping
- Electrical Design and Load Calculations for Platform Power Supplies
- Installation of Power Supplies, Cable Support & Switchboard Upgrades
- Upgrades for Installation of Varco & MH TD Systems & Roughnecks

The above identifies the range of assistance and support DSL can provide, and the positive feedback we received throughout the duration of this project sets in stone the reputation that we have built for the provision of an excellent and professional service.

“Please send my thanks and regards to your team members and thank you for guiding them safely to the close out of this task. I think the legacy will be your work.”
Apache North Sea Drilling Upgrade Rep



“My thanks to the DSL crew for the good quality of work and attitude whilst here on the Alpha”

**Upgrade Representative,
Apache North Sea**

Drilling Package Upgrade and Refurbishment

"The work has been completed without a safety incident and i have had nothing but extremely positive feedback on the offshore team, their professionalism and their willingness to work overtime if necessary to get the job complete."

Well Design Team leader/Drilling Superintendent
Brittania Operator Ltd



DSL undertakes the upgrade and refurbishment of drilling packages or DES (Derrick Equipment Set), for drilling contractors and operators, worldwide.

Drilling Package Upgrade and Refurbishment

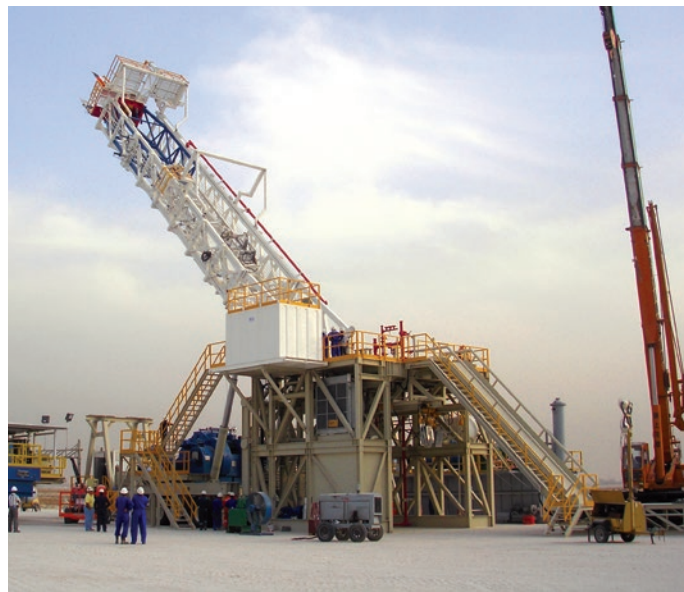
Our day to day involvement in the upgrade, modification and refurbishment of drilling packages makes us the ideal contractor to carry out your drilling package requirements.

Whether it is as single workscope such as a drag chain replacement, design and manufacture of a BOP handling trolley, top drive upgrade or the complete upgrade and/or refurbishment of your drilling package, with DSL you have a contractor that can take on your total requirements from engineering, project management, supply of materials/equipment through to the completion of the upgrades and commissioning activities.

If your location dictates the use of a significant amount of local resources and manpower, this can also be accommodated within the project as we have done so on previous projects. Our offices, however located around the world ensures that you are never far from a local contact to deal with.

Land Rig Repair, Refurbishment and Upgrade

Land Rig Repair/Refurbishment forms a significant part of our core business worldwide



Land Rig Repair, Refurbishment and Upgrade

Land rig refurbishments and upgrades form a significant part of our core business worldwide. From carrier rigs to the biggest drilling rigs we can provide you with a range of services from complete overhaul, upgrade for new equipment/capacity or refurbishment of individual pieces of equipment, regardless of make, model or brand.

Most importantly we have the people with the knowledge, background and experience to understand your requirements or problems and provide you with qualified solutions to enhance or repair your rig or equipment. This along with our API registrations and licenses provides you with the assurance that you are working with a competent and reliable company.

Some of the common upgrades that we undertake include;

- Refurbishment of Drilling Equipment
- Overhaul of Complete Rig
- BOP Handling Solutions
- Modifications to increase Rig Capacity
- Top-drive Upgrades
- Replacement Masts & Substructures
- Mud Systems & High Pressure Piping
- Rig Moving Systems
- Spare Parts
- Increased Rotary

In-house services and personnel means DSL can undertake your upgrade/refurbishment on a turnkey basis



Derrick Upgrade Projects



DSL has the experience, qualifications, and resources to support your project, safely and efficiently at any location, worldwide

Our personnel have years of experience in the upgrade, modification, repair and inspection of almost every type of drilling structure

Derrick Upgrade Projects

DSL personnel have over 30 years of experience in the upgrade, modification, repair and inspection of almost every type of drilling structure regardless of manufacturer or design and always in accordance with API standards.

Typically we will manage and complete numerous Derrick upgrade projects at one time within the course of a year. Projects will cover every element of the workscope from structural analysis through to installation of the materials applicable to the project, and, at any location in the world.

Our in-house engineering has accumulated many years of experience of upgrade worksopes allowing us to provide fast, proven solutions to your requirements. Our API 4F and 8C licenses provide you with the assurance that we are qualified to undertake such projects. We have an extensive pool of rig builders and site construction personnel who are very experienced and subject to intensive training and will provide you with a safe and productive installation phase to your project, and as importantly, allows you to award the complete upgrade workscope to one contractor, therefore eliminating interfaces from your project, as well as avoiding the import of unnecessary risk into your project.

Our in-house resources and construction personnel allows you to award the complete upgrade workscope to one contractor. This eliminates interfaces from your project, as well as avoiding the import of unnecessary risk into your project.

Typical Projects that we undertake include:

- Off Line Standbuilding Upgrades
- Increased Hook Load Capacity
- Increased Setback Capacity
- TD Upgrades
- Derrick Extensions
- Derrick Windwall & Heat Shield Cladding
- Replacement Guide Rails
- Replacement Racking Boards
- Derrick Modifications for Introduction of Pipe Handling
- Derrick Lighting
- High & Low Pressure Piping
- Casing Stabbing Boards
- Bolt Changes
- Derrick Inspections



Derrick Assembly & Outfitting

DSL rig building crews have been responsible for the erection and outfitting of derricks for new build projects since 1980

Derrick Assembly & Outfitting

DSL rig building crews are regularly involved in the erection and outfitting of derricks for new build projects and we have been undertaking this type of work since 1980. This provides you with the assurance that we can undertake every element of the assembly project from basic steelwork through to installation of equipment and stringing up of the travelling equipment. Whether your structure is a static platform, a Jack Up Derrick or a massive Dual Derrick you will find that we have undertaken the assembly and outfitting of every type of structure in the industry.

The planning and preparation we apply to such a project before we start work gives you the assurance that you know the schedule we are working to, and the procedures and method statements etc. applicable to that project. In fact we provide you with a comprehensive work pack prior to commencing a job to ensure that you are fully aware of what we are going to be doing and how we are going to do it. This ensures that you do not encounter any nasty surprises relating to budget, planning or safety at any stage of the Derrick assembly.

The fact that all our rig builders are full time employees of the company gives you the assurance that they have been subjected to our training and competency assessment procedures, therefore providing you with the safe knowledge we are not going to compromise your own standards of HSE in any way. If necessary, our in-house engineering department is experienced with planning lift sequences, installation plans and engineering and design of installation aids so as to ensure that the integrity of the structure is not compromised at any stage.

DSL – Drilling structures expert confirmed by API accreditations and driven by the highest international standards.



“I have been very happy with the services that DSL has supplied. We have had to operate in very difficult conditions to meet this dead line.”

“The job was completed this morning and we have had very positive response from the senior personnel onboard. I had no complaints from the crew and we lost no time through accident or Incident.”

Lead Engineer, NOV



DSL has the experience, qualifications, and resources to support your project, safely and efficiently at any location, worldwide

Our rig building crews are some of the most experienced, productive & safety conscious that you will find in the industry

Rig Building Crews

Our rig building crews are some of the most experienced, productive and safety conscious that you will find in the industry. Many of us have worked together for a number of years, accumulating experience on every type of workscope associated with drilling structures, including:

- Derrick Assembly & Outfitting
- Derrick Decommissioning
- Floating Ginpole Operations
- Crown Removal/Reinstallation
- Replacement Guide Tracks
- Derrick Extensions
- Installation of Racking & Hoisting Systems



Safety of our rig building operations is paramount and is not hollow sales talk. At DSL you will find that our commitment to providing the safest possible site personnel in the industry, can at best only be equalled. We have undertaken a comprehensive program of internal and external training and competency assessment, regardless of the experience of our people, so we can confirm and provide tangible evidence that the rig builders we supply to you are simply the best trained in the industry. This provides us with the safe knowledge that we are doing everything possible to protect and enhance the safety of our people, whilst giving you the confidence to know that the people we supply to you know exactly what they are doing, and are doing it safely.

Productivity of course is also essential as we are often working between drilling programs or contracts. The key to our productivity is that our people are full time employees of the company. They are not simply picked up and dropped as and when required. This allows us to invest in our people allowing our staff to focus on getting the job done rather than worrying about where their next job is coming from. However, continued employment is only sustained through continuation of contracts. We achieve this through our customers recognising that our pro-active approach to enhancing our standards, provides material benefits including the elimination of risk when you choose us to assist you.

Offshore Personnel & Floating Pole Operations

DSL provides rope access technicians for both offshore and onshore requirements, worldwide

Offshore Personnel

DSL rope access personnel stand out from most of our competitors in that many of our personnel are also trades personnel such as welders, electricians, platers, riggers, not to mention Inspection Personnel. This in turn enables us to support a diverse range of customer requirements from simple rigging exercises, inspection activities, through to electrical and piping worksopes, as well as the assembly and/or dismantling of structures such as drilling derricks or any other steel erection activity.

We maintain a rope access workforce of approximately 60 personnel throughout the year, with additional personnel taken during peak periods. Due to the significant amount of work that we do on mobile drilling units our personnel understand and appreciate the need to get worksopes completed on time and of course safely.

Our Rope Access Services are supported by our comprehensive Safety Management System that ensures every element of our operations is conducted in a controlled environment so as to afford our personnel, (and your project), with the minimum of risk in their work, and this is reflected in our safety record.

The fact that we also have our own in-house engineering and fabrication capability, as well as being an ISO 9001 accredited company, provides you with the comfort and knowledge that we are not simply a labour supply outfit but that we are heavily involved in a variety of construction related activities.

Our experience and knowledge can, and is used to both understand and support your requirements:

- Dropped Object Surveys
- Derrick Inspections
- Structural Inspections
- Pipework Installation
- Replacement Guide Tracks
- Electrical Installations
- Offshore Rigging Activities

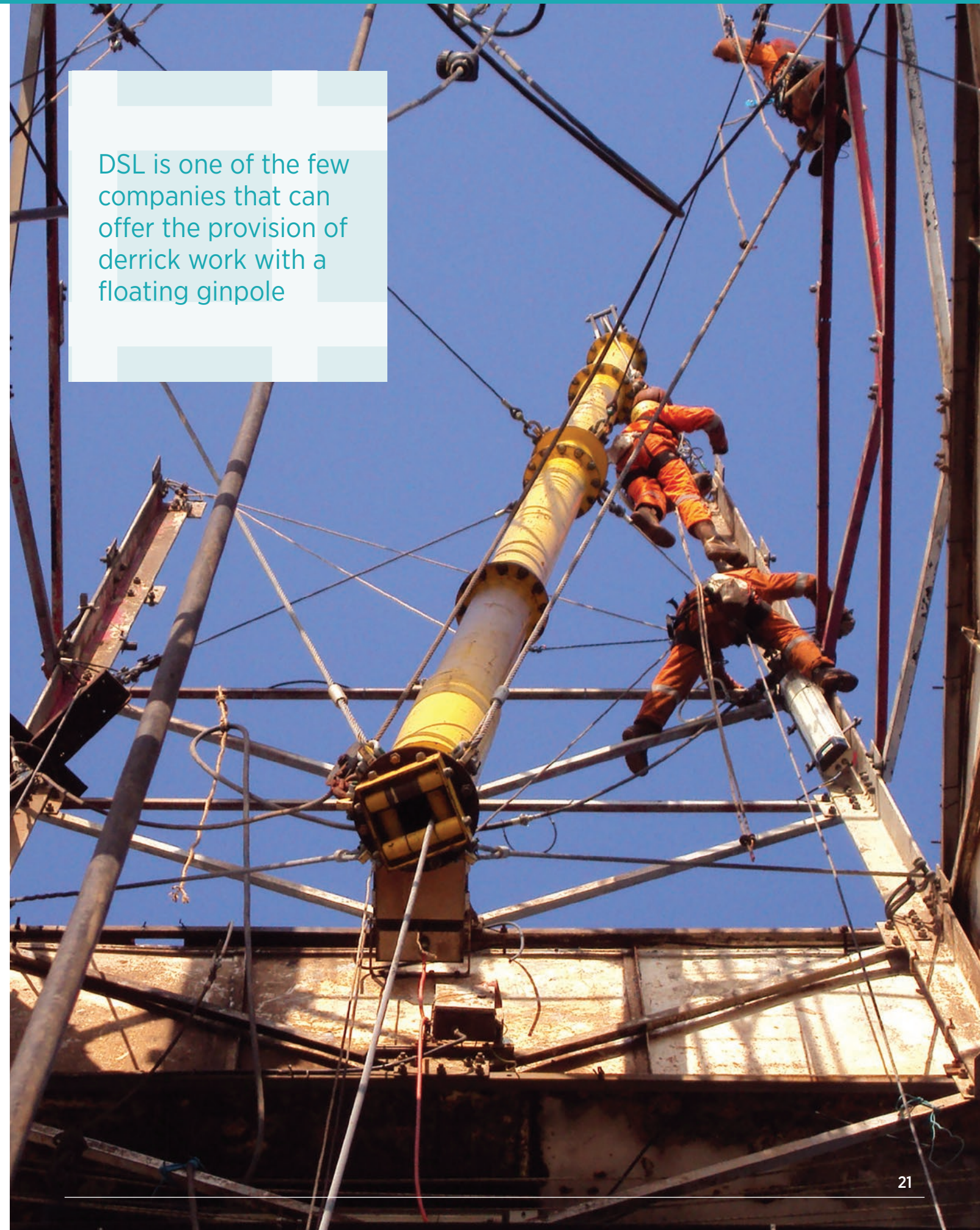
Floating Pole Operations

DSL is one of the few companies that can offer the provision of derrick work with a floating ginpole.

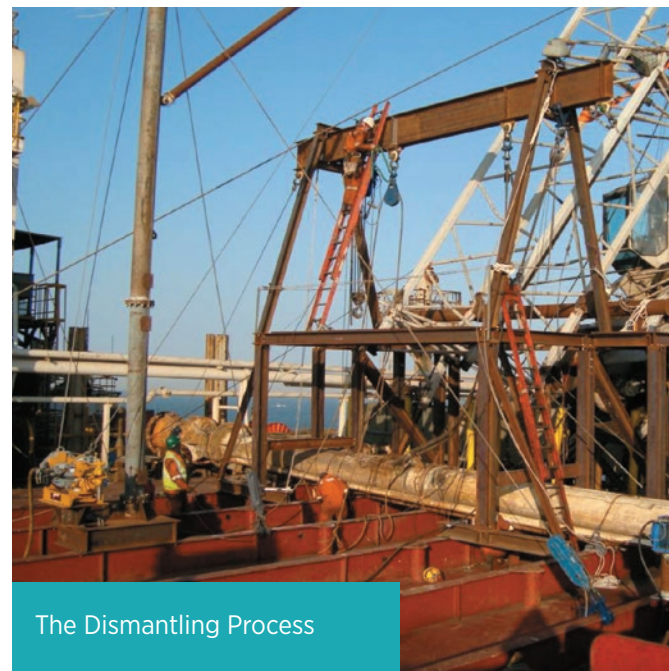
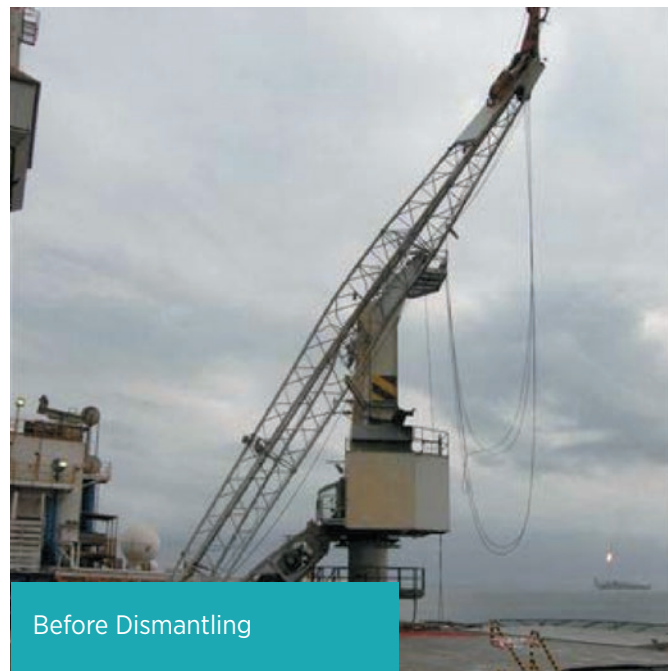
The floating ginpole is a specialist piece of equipment that is ideal for derrick erection, decommissioning, or modifications that need carried out where crane use is not possible or too expensive.

DSL Rig Building Crews have extensive experience of using this equipment in locations all around the world and have received training and have been assessed by third parties to confirm their competency for the use of this equipment.

DSL is one of the few companies that can offer the provision of derrick work with a floating ginpole



This support structure was designed and installed to manage the controlled dismantling and security of the structure at deck level



“Once again your crews did an excellent job, and very professional on the port crane, we appreciate all of their work and professionalism, a great team.”

Specialist Solutions

Occasionally a customer requirement will come along that tests all of our resources. The following Case Study is a prime example of the full range of our in-house support and services coming together to solve a particularly difficult situation for one of our customers.

Case Study

In July 2009 one of our customers came to us with a unique problem that had arisen due to an offshore crane boom failure. Due to some type of system failure the boom had rose too far and consequently resulted in the boom snapping at the base and leaving a 136' high boom leaning precariously against the support structure and partly penetrating the deck. This project raised a series of unique concerns to deal with, including;

- Unstable & damaged structure
- Damaged & unstable adjoining accessories
- 2t block & hook hanging unsecured
- No existing calculations to develop a solution from
- No established procedures to deal with the situation
- No crane to assist removal

Planning

Every aspect of this problem was unprecedented and planning, preparation, design of temporary supports, lifting structures and the dismantling procedure had to be developed from scratch. This project encompassed, (and demonstrated) almost all of the companies range of services and expertise, ranging from design and manufacture, planning & project management, decommissioning experience and expertise, specialist rigging solutions, offshore construction services, and of course a safety first attitude to the problem.

Above all, we had to establish how we were going to make the structure stable and safe, prior to allowing personnel to even get onto the structure and start evaluating the options for the dismantling process.

With our Engineering, Production and Offshore Services Departments working together with Project Management we evolved the options until we quite quickly established a satisfactory procedure for the dismantling of the structure. However, one major hurdle was that we had no other supporting crane in the area that could reach and assist with the installation of the supports, temporary steelwork and dismantling system that we had designed. We therefore also had to design a simple but effective portable lifting device to enable us to carry out all the lifting that we needed to achieve during this project.

With the boom secured and the temporary lifting device delivered and installed, the installation of temporary supports gets underway.

The Dismantling Process

Once we had secured the structure and installed the additional support cradles to facilitate the weight and descent of the structure we commenced the dismantling process, as illustrated opposite.

Summary

This project enabled us to once again demonstrate the broad range of experience and expertise that is retained within our company, for both onshore and offshore elements of our activities, and how they can be combined to solve even your most extreme problems, we call it “Depth of Service”. It’s something that’s worth considering when evaluating who can solve your problems, not simply identify them!

DSL has years of experience in the design and manufacture of dynamic & static derricks and masts of every size

Drilling Derricks, Masts & Substructures

DSL has years of experience in the design and manufacture of Dynamic & Static Derricks, Folding and Telescoping Masts of every size and capacity. DSL can engineer a customised design to suit your specification requirements and drilling rig, and, all DSL derricks, masts and substructures are manufactured in accordance with API 4F Standards.

The range of Derricks and Masts we manufacture includes but is not limited to;

- Static Derricks (Jack Ups & Platforms)
- Dynamic Derricks
- Dual Derricks
- Off Set Derricks
- Cantilever Masts & Substructures
- Folding Masts
- Telescoping Masts
- Bootstrap Masts

The above mentioned are designed and manufactured in accordance with the operational requirements of your installation.

One of the most prestigious examples of our experience and capability is represented on the BP Thunder Horse Project. A dual activity Derrick which was designed and manufactured during our time at MIL.

A few other recent examples that reflects our broad range of experience includes the Maersk Innovator and Inspirer, the Shell Sakhalin II, BP Mad Dog, ENSCO 106 and the Glomar Explorer and Ocean Valiant.

All of these are high specification and harsh environment structures that best represents the quality and integrity that you will find in a DSL derrick or mast.

Our experience, expertise and product knowledge is reflected in the accredited approvals and licenses that we have attained, including;

- API 4F
- API Q1
- API 8C
- ISO 9001:2008

Unlike most derrick manufacturers, we do not subcontract the fabrication of our derricks. We manufacture our own product therefore retaining control of the quality and delivery for your end product.

Our engineering capacity and capability is one of the largest you will find for an independent company and we have in-house engineering resources on board to work with you direct on your requirements. When not working on new build project, we retain our engineering capacity on the vast range of upgrade, refurbishment and recertification projects we carry out on existing structures and rigs.

In essence, whatever type of structure you require DSL has the qualified capability and capacity to provide you with a suitable solution to your specification.

Whatever type of structure you require, DSL has the qualified capability and capacity to provide you with a suitable solution to your specification





The experience at DSL in the design and manufacture of Offshore Drilling Derricks & Masts stands as one of the Best in the Industry

DSL derricks are manufactured in accordance with API 4F standards in our API registered facilities ensuring 100% quality control for the end product



Mast and Substructures

DSL designs and manufactures a variety of mast & substructure configurations. We can supply you with a standard cantilever design, box on box, trailer rig or any other configuration that suits your requirements. We can provide you with whatever capacity and/ or combination of loadings that you want from 500 through to 3000 HP Rigs.

Location of course most often governs the rig design and we can offer you a range of designs to suit your location be it fast moving desert Rig, standard land rig or winterized rig for extreme cold climates.

Rig moving and rig skidding systems can also be incorporated into the design of your rig as well as any other features that you may require such as zero discharge and pipe handling.

We can also incorporate any equipment specification or combination into our designs whether you require a replacement mast & substructure for an existing rig or are building a new rig. You will also find that we have the capacity to undertake any interface engineering that you may require for your rig and its equipment.

Manufacture of Drilling Structures

Unlike many other Derrick Manufacturers, DSL does not subcontract the manufacture of its Derricks. Our Derricks are built in our API registered facilities under our control by our workforce, thus ensuring that our reputation, quality standards, and pride, which is reflected in both our design and the quality of our workmanship.

Our skilled workforce produces a high quality product that is further enhanced by the manufacturing data books and supporting information that is supplied with your new structure, giving you 100% integrity of your order from start to finish. Apart from our API licences, our ISO accreditation is also awarded through API, thus ensuring a seamless quality level across the various international standards.

Derrick & Mast / Substructure Inspection & Recertification Services

Our rig building crews provide some of the most experienced, inspection and recertification services worldwide

Inspection Services

DSL provides a comprehensive range of inspection and recertification services that you can trust.

DSL supports the oil and gas industry with a range of in depth inspection and testing services which includes the following disciplines:

- Derrick & Mast / Substructure Inspections
- Dropped Object Surveys
- Lifting Equipment Inspections
- BHA Inspection Services
- Supply of Water Test Bags / Engineers
- Lifeboat Inspection
- NDT Inspection Services
- Load testing

Derrick & Mast / Substructure Inspection & Recertification Services

What is the objective of an API Category III or IV inspection of your Derrick, Mast and Substructure?

It is of course to enable you to demonstrate through recertification by a qualified contractor that the structure has been inspected and verified as still being capable of accommodating the operational load cases for which it was originally designed, or subsequently modified.

DSL is that qualified contractor.

We do not have to play with words or the mention of specifications to make you believe that we are qualified to carry out such inspections, we are qualified, we are licenced by API, we have over 30 years experience of the design, manufacture, upgrade, inspection and repair of drilling structures, we do not need to fool you.

Why is this important? The derrick or mast/substructure on your rig is probably the single biggest piece of lifting equipment you have. It is therefore imperative to the integrity and safety of your operation that the inspection is carried out by a qualified vendor so as any developing issues in the structure such as fatigue, misuse, damage or monitoring of existing conditions are maintained until addressed. Monitoring of existing conditions recorded in previous inspections is also an important part of the inspection.

Once you have had an inspection carried out by us, you then receive a comprehensive report detailing any actual or potential issues uncovered by the inspection. Future inspections then refer back to previous reports to ensure that there has been no further deterioration/ development of any previous issues recorded.

Many drilling structures in use have endured years of hard work and it is not unusual to find from time to time that the qualified repair or replacement of a component/s is necessary to maintain the structures operational capacity and compliance to specification. In such cases DSL, as an API 4F licensed manufacturer, can undertake that work without compromising the API status of the structure.

To further eliminate risk we can also carry out a Dropped Object Survey at the same time as the Inspection and therefore providing a completely clean bill of health for your derrick.

Technical Support

If you have any concerns regarding your derrick or mast and substructure please feel free to send your questions to derricksupport@derricksl.com

Qualification, Accreditation, Engineering Support & Product Experience.

Anything less is liability



Every element of what we design, build and install has dropped objects considerations taken into account

DSL has been providing dropped object surveys and support services since, and before, the DROPS initiative was first launched

Dropped Object Surveys

DSL has been providing dropped object surveys and associated support services, including derrick and mast API inspections to the Oil & Gas Industry worldwide, since, and before the DROPS initiative was first launched.

Active members of this industry wide initiative, DSL are focused on preventing dropped objects, working towards achieving the ultimate goal of delivering a second nature dropped objects strategy across the industry.

Our core business activities involve drilling structures. This means that every element of what we design, build and install has dropped objects considerations taken into account, from the design, right through to the installation by our offshore construction personnel.

The prevention of dropped objects is intertwined in almost all of our business activities.

DSL surveys have developed to ensure all relevant areas are covered for the client, and will cover the whole installation as the industry takes further steps to reduce risk. DSL offer one of the most comprehensive services available.

A full survey typically can include the following, or, it will be tailored to suit specific client requirements;

- Derricks & Masts
- Travel/PH Equipment
- Communications Mast
- Substructure
- Jack House & Legs
- Rig Equipment
- Moon Pool / Texas Deck
- Deck & Gantry Cranes
- Leg Columns
- Flare Stacks
- Helideck Structure
- Internal areas

We do however approach the inspections as practical and pro-active as possible to ensure that we can solve issues on site, meaning we can reduce or eliminate the number of faults / failures in the report , which cuts down the items to be addressed to going forward.

Following a survey, DSL will provide a detailed report listing information on any issue found and the report will clarify if the issue was resolved during the survey. Every item will be backed up with photographic evidence.

DSL will also provide a separate document which will highlight outstanding faults, and how often these should be inspected to ensure any specific issue does not deteriorate to an unsafe condition until it can be addressed.

When all items on the initial report have been addressed, only then will the report be checked off and closed out.

Should a client require DSL report format converted to match their system, this is a simple process. DSL have created an inspection application which can be easily changed and amended to suit.

DSL are committed to DROPS prevention and are determined to help in making a difference. Through established training and experience in the field, our inspection teams are committed to improving safety and to eradicating the menace of dropped objects.

Rigcentral[®] inspection software and RFID reader ensures that clients asset inspection schedules are maintained & trending of defects is identified early



As the Upstream market continues to see increased activity many drilling contractors are preparing to put rigs back to work, but many suffer the same issue of not being entirely sure what equipment is where, and what condition it is in.

DSL Asset RFID Tagging Services in conjunction with our RigCentral Asset and Inspections database provides the total and permanent solution for the tracking, identification and status of all your individual assets.

The Tagging installation process and upload onto the software is quick and simple with a variety of RFID tags to suite whichever piece of equipment is being tagged. The RigCentral software is updated with every new tag*, (assuming internet access), which enables you to see the progress of your asset inventory growing onscreen, hour by hour, day by day, until the exercise is complete and you have the full and complete inventory of your individual assets on each rig/ location. The permanent fixture tagging ensures that if a piece of equipment is relocated from one rig or yard location to another, it can be easily incorporated into the asset list for that rig/location.

The Dashboard functions that we also provide you with a quick and simple snapshot of the visibility of the assets by country, by region, by rig or warehouse, or by type of component such as motors, valves, top drives etc.

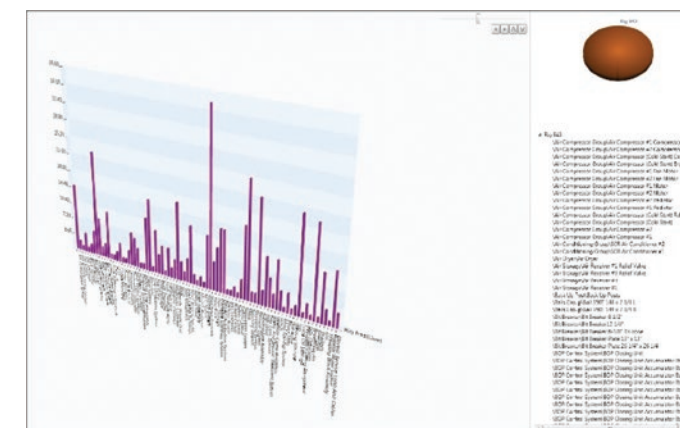
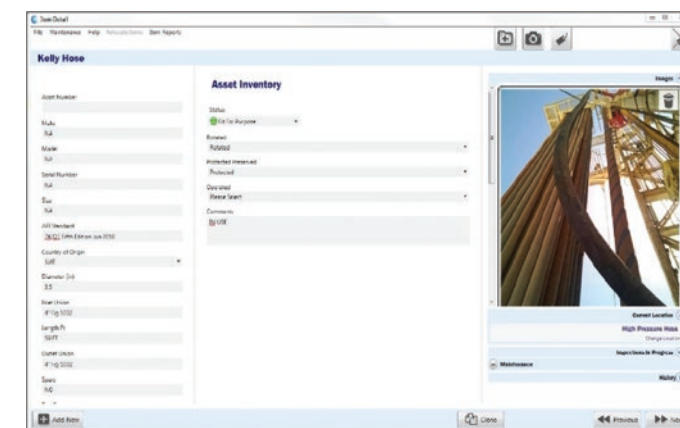
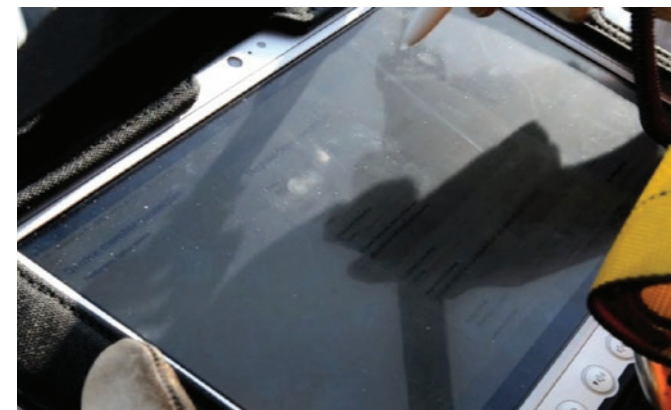
As an example, if one of your land rigs has a failure of a primary piece of equipment and you need to replace it quickly to get the rig back to work, anyone with access to the system can identify all other identical models within your fleet and their location, and check if it's being used, if it is in service and if its inspection certificates are still valid, which in turn allows you execute a plan to get the rig back to work, and subsequently let your customer know when that is going to happen.

No more ambiguity in front of your customer, once you have all your assets logged into RigCentral you can then expand its use and upload operations and maintenance manuals for each piece of equipment, as well as inspection reports and inspections schedules. This in turn then puts you in complete control of your inspection scheduling as the system will flag when each individual inspection is due. All the data gathered can also be incorporated into your SAP system or other systems that you may be utilizing.



For many years MODU's have struggled with the central storage of various equipment certification documents, inspection reports and rig assets. Customized Excel spread sheets and databases make up the majority of tools for storing records onboard at present, none of these provide operational and maintenance transparency and traceability for all equipment on the asset.

DSL has introduced its RigCentral database into the Industry to eliminate this problem once and for all, eradicating the time wasted in finding and checking reports and certification, along with giving you notification of when current certification is due to expire.



Key BENEFITS of RigCentral[®]

- The system enables you to manage all of your inspection reports/data from one system with the rig and operating base sharing the same information.
- The system allows personnel to be more time efficient, saving time on data entry tasks such as Lifting Gear Inspections.
- Subsequent inspections are carried out quicker than normal due to the fact that the Inspectors have instant access to all of the information required to commence work.
- Having one central database for inspections and asset management, keeps all of the data and certification for inspections and assets in one convenient storage location.
- The Asset Register and statutory Lifting Equipment Registers allow your company to comply with legal and statutory requirements efficiently and effectively.
- Gives personnel full detailed information at their fingertips and enables management of single items of equipment through to an entire fleet, ensuring data is aligned.
- The built in planner and scheduler means that inspections are met on time and not missed. Reminders allow the aligning of vendors to conduct surveys promptly, the reporting suite which captures data from entry and the reference data already installed ensures that concise, accurate and consistent reports can be produced and compared.
- Mistakes can be eliminated by making certain areas read only access, utilising dropdowns and lookups and the 3D charting allows for easy comparison of Installations side by side. Trends can be easily uncovered and because of the interactive element defective items can be reached.

DSL engineers always 'deliver the goods' on client projects

Engineering and Design

DSL's engineering and design resource covers a wide range of disciplines and workscopes including electrical, mechanical and structural engineering, all supported by the latest design software. DSL has permanent engineering teams in Great Yarmouth, Aberdeen and Dubai that undertake varied workscopes covering the broad spectrum of systems onboard an installation, including, but not limited to power generation, mud systems, drilling structures and rig moving.

Rig upgrade and refurbishment projects continue to provide our engineering teams with the challenges to improve operations or systems. This typical project exposure increases our experience and ability to provide effective solutions for improvements you may wish to implement on your rig. DSL is constantly upgrading existing derricks, masts and substructures for increased capacity, mobility and/or the introduction of new equipment such as racking systems.

Drilling structures are of course part of our core business and you will find a wealth of experience applicable to the design, modification, re-certification and validation of new and used drilling structures, both onshore and offshore.

Additionally for projects such as general fabrication we can either design your requirements in-house or provide additional support to your own engineering teams on an ad hoc basis for engineering and / or draughting support.

DSL's engineering and design team conform to the API 4F standards confirming the capability that DSL can undertake drilling structure related design and modification projects. DSL's engineering resource has an excellent track record across the industry, we offer the client solutions from concept right through to the final product, and, support through the entire project, at any location, worldwide.

DSL are a PED module H accredited fabricator subsequently allowing us to design, fabricate and complete final inspection and testing of pressure vessels/tanks, high and low pressure pipework in-house, this process is supported by a robust approved Quality system.

Project Management

DSL has years of experience providing high-quality project management, engineering and design for the major drilling contractors and operators. We are capable of supporting our client's projects using effective systems and procedures, at any time, worldwide.

DSL has established long standing relationships with clients as we consistently deliver projects successfully, we strive for faster project delivery and production of cost savings for the client, whilst managing all aspects of the project with safety as prime focus. These core values have enabled us to develop confidence with our client base time and time again.

Fabrication

DSL undertakes a wide range of fabrication projects including drilling structures and accessories, mud tanks, high and low pressure pipe work, subsea structures and associated components.

Our fabrication facilities are licensed to both API and ISO 9001: 2008 and these reflect our commitment to the high standard and quality of our fabricated products.

With our in-house engineering capability you have the option of either providing us with the drawings of the components that you require to be fabricated or we can design and build to your requirements.

You will always receive a comprehensive manufacturing data book with your order to ensure that you have a complete record of all the manufacturing details relevant to the order.

DSL has a proven track record for responding quickly to customer requirements for urgent orders, ensuring that client projects are not delayed. Our priority is to ensure we work fast to efficiently meet the clients immediate project needs.

DSL offers in-house, engineering, design, fabrication and project management services

“Of particular note is the offshore supervisors from DSL who are both demonstrating good leadership and competence in implementing the scope.”

“They have integrated well and give the platforms management confidence that the work is being implement in a safe manner. This level of competency is critical to safe and efficient implementation of the work scope”.

Talisman Auk South, Projects Co-ordinator



What goes up, must come down safely

Decommissioning

DSL has extensive experience in the removal of drilling derricks and sub-structures from platform installations with a vast track record of successful decommissioning projects, worldwide. DSL is usually approached to carry out the decommissioning of drilling rigs/packages to either reduce deck load on existing platforms, or to remove specific modules of an installation prior to the major dismantling activities by heavy lift cranes.

The most cost effective method of removing drilling package and sub-structure is to dismantle it piece small, on location. DSL has been involved in drilling package and sub-structure decommissioning projects since 1988 and has predominately utilised the “floating ginpole” equipment which, is a specialist piece of equipment that is ideal for decommissioning and creates major cost savings for the client over the use of a crane.

DSL’s highly trained and experienced rig building crews have extensive experience of using this equipment. They have been subjected to intensive training and have been assessed by third parties to confirm their competency for the use of this equipment which gives the safe knowledge that DSL rig building crews will not compromise the client’s project and HSE in any way.

Prior to removal, a significant amount of planning and preparation of risk assessments and project specific procedures will take place, ensuring that the decommissioning is carried out in an entirely safe and controlled environment. It is vital that the integrity of the structure is maintained at all times during the dismantling of a derrick, especially if there is a chance of adverse weather conditions during any part of the process.

As and when required, DSL’s in-house engineering department can evaluate and calculate the status of the structure to make sure that no single stage of the decommissioning process creates any risk.

DSL maintains exceptional international standards and is accredited to API 4F and 8C, API Q1 & ISO 9001:2008. These accreditations reflect the integrity of the business giving clients the confidence that they are working with a supplier that can be trusted to deliver and meet specification demands.

Our experience of decommissioning projects includes:

- BG Rough Storage
- Thistle Platform N. Sea
- Claymore Platform N. Sea
- East Zeit Red Sea
- Total Alwyn N. Sea
- Vega A. Mediterranean
- Shelf VII Caspian
- Talisman Auk
- CTF Rig 05



The DSL Casing Stabbing Board represents one of the safest designs available to you today

Derrick & Land Rig Accessories

From our facilities in the UK we are constantly building replacement accessories for our customers, these typically include:



- Guide Rails (Travel Equipment)
- BOP Test Stumps
- Racking Boards
- BOP Handling
- Tubing Boards
- Trolley Beams
- Casing Stabbing Boards
- Bolts
- Mud & Cement Standpipes
- Pins
- Crown Blocks & Sheaves
- Mud Pits
- Ladders & Platforms
- Raising Sheaves
- Derrick Members (Girts & Braces)
- Mast Dollies
- Mast Raising Lines
- Standpipe Manifolds
- Rig Skidding
- Ventlines
- Rig Moving
- Lighting Systems
- Windwalls
- CCTV
- Drill Line Spoolers
- Hydraulic Cylinders
- Rig Spares



More of what our clients say about us

Please accept this letter as a note of appreciation for the professional way DSL have performed and supported our project requirements, with regard to Project Management, Design work-scopes, decommissioning, refurbishment and relocation of the Rig 05 package in Tunisia.

The work has been completed without a safety incident and I have had nothing but extremely positive feedback on the offshore team and their professionalism.

Throughout the onsite work-scopes personnel have been extremely proactive with supervisors demonstrating good leadership and competence in implementing the requirements of the work-scope.

Commercial Director, Compagnie Tunisienne De Forage

With reference to the ongoing work being undertaken on the Auk platform, by yourselves, please be advised as follows; We would like to bring to your attention the high quality of work being performed by DSL staff. The DSL team has displayed a professional, safety conscious, "can do" attitude , which is greatly appreciated by the Auk platform management and the Auk South project leadership team.

Given the time of year, access to the derrick was always going to be hampered by weather conditions. However, the flexible and positive approach shown by the DSL team on tackling the myriad of tasks related to the fallback destruct work has been a boost to the overall Auk South redevelopment project.

The communication between the DSL supervisors, the DSL team and the Auk platform staff has been excellent to date.

In conclusion, we are impressed with the level of professionalism and application displayed by your team, which augers well for any future involvement. Well done!

Talisman Energy (UK) Limited



I have been asked by the Ninian North OIM to convey his thanks to yourself and the DSL team for your excellent performance in undertaking a difficult piece of work in the Ninian North Derrick in such a safe, efficient and highly professional manner. The OIM raised this comment at the weekly planning rig call / meeting in front of the CNR engineering, maintenance and management team.

Obviously I would like to add my own, and Brian Haston's thanks to yourself and the team, for not only delivering the work safely but also for delivering it within schedule, and for providing such a comprehensive well written report before you demobilised.

Project Engineer, Drilling & Completions Department, CNR International (U.K.) Limited

I can only repeat that, over the years, I have only had first class service from DSL. This time has proven to be no exception and I am looking forward to a satisfactory conclusion for all parties.

I have received nothing but good reports and I hope that it is possible to meet them and buy them a beer on their return onshore.

Maersk Drilling

Just a quick note expressing my thanks and appreciation to the guys and to that of the company's that supplied the relevant disciplines for the completed campaign on the BBLT. Professional with a fantastic work ethic that didn't go unnoticed with platform management and thus ensuring we were left to complete our scope of work with minimal fuss.

Thanks Again.

RDS Construction Supervisor. BBLT Angola



Head Office

Falcongate House
Faraday Road
Harfreys Industrial Estate,
Great Yarmouth
Norfolk
NR31 0NF
Tel: **+44 (0) 1493 669141**
Fax: **+44 (0) 1493 668409**
Email: **enquiries@derricksl.com**

Aberdeen, Scotland

9 Abbotswell Road
Aberdeen
AB12 3AD
Tel: **+44 (0) 1224 898571**
Fax: **+44 (0) 1224 872322**
Email: **enquiries@derricksl.com**

Sharjah, UAE

Derrick Services MENA FZE
Plot HD-17, PO Box 49945
Hamriyah Free Zone 1
Sharjah
UAE
Tel: **+971 (0) 06 504 9888**
Fax: **+971 (0) 06 562 1417**
Email: **enquiries@derricksl.com**

Joulon Services DMCC – Head Office

Unit 2, 8th Floor
One JLT Tower
Jumeirah Lakes Towers
Dubai
UAE
P.O. Box 34994
Tel: **+971 4 449 7747**
www.joulon.com

Houston

Derrick Services (DSL)
Suite 925, 11490 Westheimer
Houston
Texas 77077
Tel: **832 998 8220**
Fax: **713 783 0067**
Email: **enquiries@derricksl.com**

Indonesia

PT. Derrick Services Indonesia
Graha Kapital 2,
3rd Floor
JL. Kemang I No.7
Jakarta Selatan 12730
Indonesia
Tel: **+62 21 7199516**
Fax: **+62 21 7198610**
Email: **enquiries@derricksl.com**

For more information on the services we can offer our clients -
Please visit our company website

www.derricksl.com

