



# OILFIELD SERVICES & SUPPLIES

Assuring Our Best Services At All Times



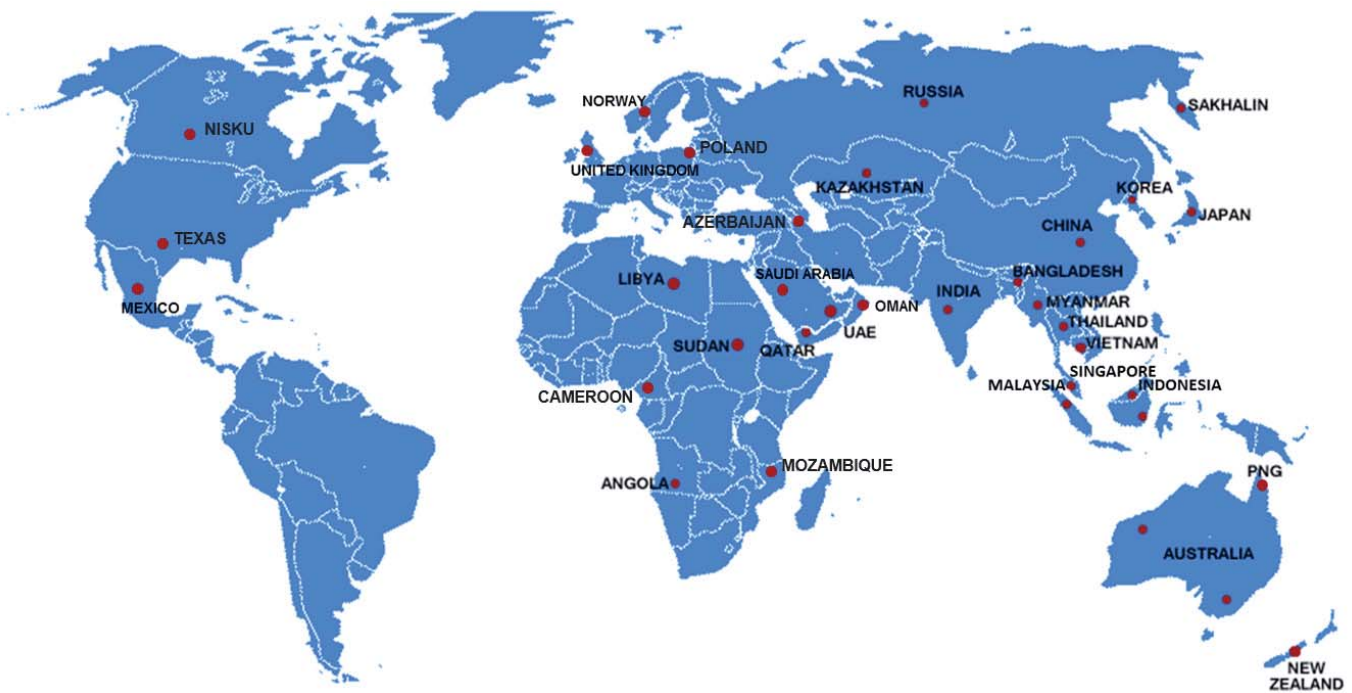
An internationally recognised leading Oil & Gas manufacturing and service solution provider of the highest standards, and an employer of choice that is committed to quality, health, safety and environmental excellence.

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- Tianjin
  - Mumbai
  - Sattahip
  - Songkhla
  - Singapore
  - Labuan
  - Jakarta

# Introduction

Established in 1999, our Group is an integrated manufacturer of tools and components as well as a provider of service solutions to the oil and gas industry.

We offer critical turnkey manufacturing support and ancillary services (such as repair and maintenance, rental and trading of various tools and components) to international oil and gas service companies, drilling contractors, tool rental companies, and oil majors in many regions.



 <p><b>Certificate of Registration</b>  <b>APIQ1 REGISTRATION NUMBER 9507</b>  <i>This certifies that the quality management system of</i>  <b>OILFIELD SERVICES &amp; SUPPLIES PTE LTD</b>          No. 20 Tuas Avenue 10          Singapore</p> <p><i>Has been assessed by the American Petroleum Institute (API) and found to be in conformance with the following standard:</i>  <b>ISO 9001:2015</b></p> <p><i>The scope of this registration and the approved quality management system applies to the:</i>  <b>Manufacture, Service and Rental of Drill Stem Elements; Threading of Rotary Shoulder Connections, Casing, Tubing and Line Pipe for the Oil and Gas Industry.</b></p> <p><i>APIQ1 approves the organization's justification for excluding:</i>  <b>8.3 Design and Development of Products and Services</b></p> <p>Effective Date: <b>NOVEMBER 8, 2017</b>          Expiration Date: <b>MARCH 30, 2021</b>          Registered Since: <b>MAY 23, 2005</b></p>  <p><small>Lisa Selby, Vice President, API Global Industry Services</small></p> 	 <p><b>American Petroleum Institute</b></p>  <p><b>Certificate of Authority to use the Official API Monogram</b>  <b>License Number: 7-1-0491</b> ORIGINAL</p> <p>The American Petroleum Institute hereby grants to</p> <p><b>OILFIELD SERVICES &amp; SUPPLIES PTE LTD</b>          No. 20 Tuas Avenue 10          Singapore</p> <p>the right to use the Official API Monogram<sup>®</sup> on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1<sup>®</sup> and API-7-1 and in accordance with the provisions of the License Agreement.</p> <p>In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: <b>7-1-0491</b></p> <p>The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.</p> <p>The scope of this license includes the following: <b>Threading for Rotary Shouldered Connections and Drill Stem Subs</b></p> <p><b>QMS Exclusions:</b> Design and Development</p> <p>Effective Date: <b>MARCH 30, 2018</b>          Expiration Date: <b>MARCH 30, 2021</b></p> <p>To verify the authenticity of this license, go to <a href="http://www.api.org/compositlist">www.api.org/compositlist</a>.</p>  <p><small>Lisa Selby, Vice President, API Global Industry Services</small></p>	<p>REGISTRATION NO. Q1-0236</p> <p><b>API</b></p> <p><b>Certificate of Registration</b></p> <p>The American Petroleum Institute certifies that the quality management system of</p> <p><b>OILFIELD SERVICES &amp; SUPPLIES PTE LTD</b>          No. 20 Tuas Avenue 10          Singapore</p> <p>has been assessed by the American Petroleum Institute and found to be in conformance with the following:</p> <p><b>API Specification Q1</b></p> <p>The scope of this registration and the approved quality management system applies to the:</p> <p><b>Manufacture, Service and Rental of Drill Stem Elements; Threading of Rotary Shoulder Connections, Casing, Tubing and Line Pipe for the Oil and Gas Industry.</b></p> <p>API approves the organization's justification for excluding:</p> <p><b>Design and Development</b></p> <p>Effective Date: <b>MARCH 30, 2018</b>          Expiration Date: <b>MARCH 30, 2021</b>          Registered Since: <b>MAY 23, 2005</b></p>  <p><small>Lisa Selby, Vice President, API Global Industry Services</small></p> 
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# Manufacture

OSS engages in the turnkey manufacturing of drill string tools and components to the specifications of our customers.

We manufacture a variety of alloy steel and non-magnetic products including drill collars, integral stabilisers, sleeves and mandrels, pup joints, bent shafts, subs (such as float sub, crossover sub, saver sub, circulating sub, junk sub, etc), radial bearings, as well as housings and components for customers' M/LWD tools.

## Core Machining Capabilities

- Deep Hole Boring
- Honing
- Milling
- Turning
- Threading
- Precision CNC Machining

## Secondary processes:

- Phosphating
- Shot Peening
- Bead Blasting
- Cold Rolling
- Plasma Transfer Arc
- HVOF
- Laser Cladding
- Pressure Testing
- Make and Break



Drill Collar



Stabilizer



Pup Joint



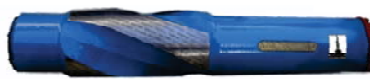
Float Sub



Crossover Sub



NM Saver Sub



Stabilizer Mandrel



Various M/LWD tools and components



Radial Bearings



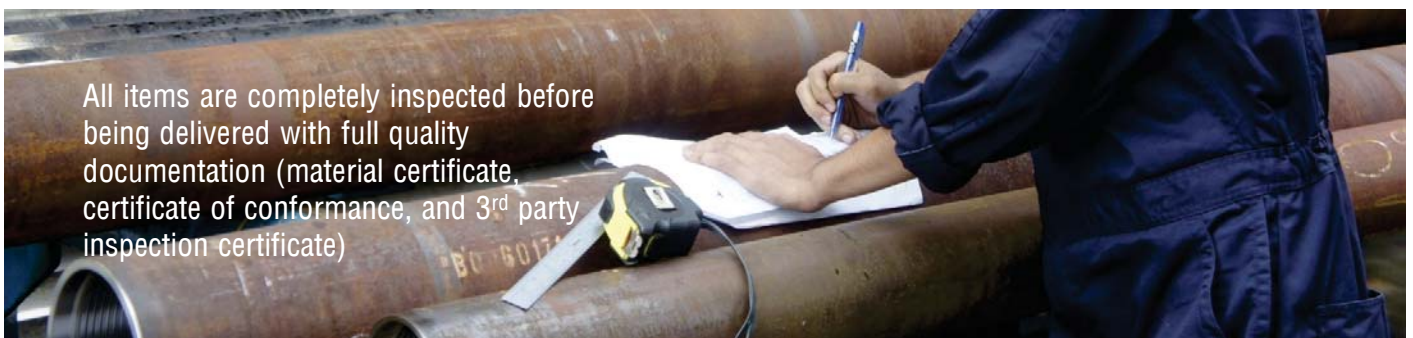
Junk Mill



Sleeve



Secondary processes such as bead blasting and shot peening are done in-house to have control over quality and lead time



All items are completely inspected before being delivered with full quality documentation (material certificate, certificate of conformance, and 3<sup>rd</sup> party inspection certificate)

# Surface Engineering

## Hardfacing

OSS offers a complete range of hardfacing to suit all drilling conditions. Through continuous improvement, we have leveraged on our experience and technical know-how to develop expertise on wear resistance and characteristics, as well as matrix hardness. Extensive in-house research has resulted in our best-in-class application process; the increased reliability in bonding is proven by track records on the field.



**HF 1000:** Crushed Tungsten Carbides are fused together within a tough polycrystalline matrix of nickel. The 3mm grain size ensures greater concentration of carbide which is ideal for soft formation drilling.



**HF 2000:** Geothermal Dressing: trapezoidal tungsten carbide inserts are held in a sintered carbide nickel bronze matrix. This will give a greater depth of carbide coverage – ideal for high deviation drilling in abrasive formations.



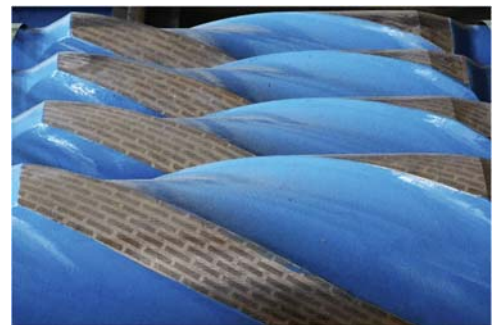
**HF 3000:** Metal Powder spray is used to fuse the tungsten carbides. This spray deposit is ideal for abrasive formations. Recommended for non-magnetic stabilizers



**HF 5000:** Flexicoy Technodur: Fused tungsten carbide in a nickel chrome boron matrix designed for oxy-acetylene torch application. The matrix is pure nickel core surrounded by fused tungsten carbide and alloy elements.



**HF 6000:** Flexicoy Technosphere & Diamond Tungsten Carbide Inserts: Diamond inserts and tungsten carbide inserts are set in a powder spray deposit – ideal for very abrasive formations.

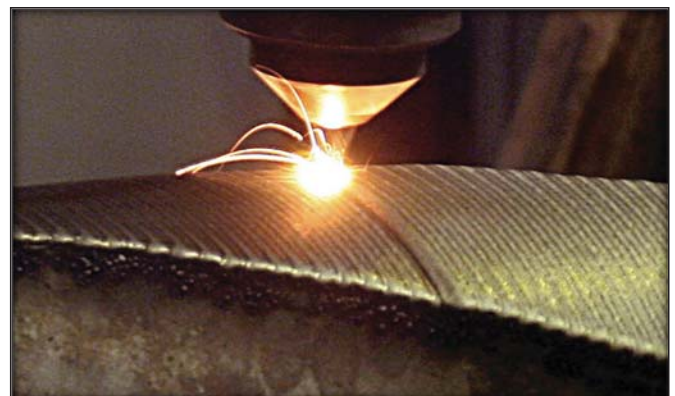


HF3K Stabilizer Blades

**Advanced Technologies – High Velocity Oxy-Fuel, Twin Wire Arc Spray & Laser Cladding**  
Applicable to both rework and new manufacture, these coatings and overlays impart improved performance of the desired characteristics such as wear, sliding and impact resistance, corrosion protection, friction modification and other electrical properties.



Sleeve with applied HVOF undergoing final inspection on a CMM to ensure that all dimensional requirements are within tolerance.



The high power fibre diode of Laser Cladding provides precise control over heat input. Tungsten carbide, titanium, nickel, cobalt alloys etc can be applied using laser.

# Servicing

## Recut, Rechase and Reface

We rethread connections on tools to improve its asset utilization rate. All connections cut by OSS are gauged to ensure optimal fit and conformance to all requirements and specifications. Besides cutting API connections, the Group is also licensed for the following premium connections:

**Benoit™**

**NOV**  
Grant Prideco

**TenarisHydril**

**TPS** TECHNITUBE  
RÖHRENWERKE GMBH

## Repair and Maintenance

With a complete suite of capabilities that ranges from machining services to surface engineering technologies, together with a breadth of relevant experience, we are able to advise and perform dynamic repair on many of our customer tools, including

- Component teardown
- OD/ID welding
- Threads repair
- Secondary machining
- Hardfacing redress
- Surface engineering



Stabilizer blades to be redressed



Port Hole / Island Window repair



HVOF can be used to repair OD surface pitting



Twin Wire Arc Spray and final machining to repair a damaged Kelly Mandrel

# Contact



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Manufacture, Servicing, Surface Engineering, Rental and Asset Management of  
Bottom-Hole-Assembly Tools and Directional Drilling Equipment



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