



## About Penguin Petroleum

Penguin Petroleum Services (P) Limited - PPSL - brings a suite of solutions to upstream hydrocarbon business segment encompassing activities from engineering to product realization, timely delivery performance and tangible value addition to its customers.

PPSL is a 360 degree engineering, manufacturing and service centre of excellence offering products, services and solutions relating to artificial lift, tubular completions, drilling services, surface production well testing and well diagnostic services and several other manufacturing support activities like deep hole drilling, tube honing, machining, API threading, re-engineering etc.

## Infrastructure

Penguin has a world class manufacturing and service facility located on a 90,000 sq ft plot, off the Mumbai-Pune Expressway, India, where bespoke engineering, machining, manufacturing, re-furbishing and calibration services are provided to its customers.

The facility is fully supported by a team of machining experts and well equipped with state-of-the-art machinery, inspection/quality control devices & tooling including a well equipped metrology lab, MPI, a full range of API work gauges, selected range of master gauges, pressure testing, vacuum testing and calibration devices, a comprehensive range of Sucker Rod Pump tooling from Gearench/Petol USA, CNC turning centres, VMCs, Turn Mills, fully automatic pipe cutting machine etc. The extensive range of these equipment & tooling coupled with highly skilled work force enables Penguin to deliver end-to-end solutions relating to its spectrum of business expertise.



Penguin's manufacturing facility is accredited with Quality/ Industry certifications: ISO-9001, API Q1, API 5CT, API 5DP, API 7-1, API 11AX, API 11B & API 19G1.

Our extensive machining capabilities consist of precision turned parts with complex shapes, ranging from tiny parts to large components for critical applications, servicing global oil & gas customers and a range of OEMs.

In essence, our manufacturing facility in India is poised to deliver world class solutions relating to bespoke engineering, precision machining, manufacturing as well fabrication of oilfield equipment.



## Mission & Vision

- ◆ To create a 360 degree engineering, manufacturing and service center of excellence for upstream hydrocarbon business segment encompassing the entire spectrum of activities from engineering to product realization, timely delivery performance and tangible value addition to stake holders and customers while maintaining the highest levels of ethics, honesty and transparency.
- To exceed customer expectations by providing unabridged and value based solutions and support them to meet their engineering, products quality and operational/service goals.
- Provide a work environment that ensures total participation and development of employees through enhancement of their skill levels, creativity, efficiency and encourage them to be innovative and responsive.
- Conduct our business in a safe, environmentally sound and socially responsible

## CNC Turning Centers/Turning Mills

### Doosan Puma 400LC

The Doosan PUMA 400LC turning center is one of the most powerful machines in their class. High metal removal rates, along with rapid positioning and fast bi-directional turret indexing, guarantee unmatched cycle times when real cutting is essential. The heavy duty design provides unsurpassed rigidity for heavy stock removal, fine surface finishes and long boring bar overhang ratios.

#### Main Specifications

Swing over bed	770mm
Swing over saddle	590mm
Max. turning diameter	550mm
Max. turning length	1024mm
Bar working diameter	165.5mm
Chuck size	530mm
Travel distance (X, Z)	362mm, 1105mm



### Doosan Puma 300LC

The Doosan Puma 300LC two axis turning center is designed for heavy and interrupted cutting, long-term high accuracy, and superior surface finishes. High speed turret indexing and fast rapid traverse rates minimize non-cutting time. The 45 degree slant bed is a one piece casting with both the saddle and tailstock guideways in the same plane to eliminate thermal distortion. The heavily ribbed torque tube design prevents twisting and deformation.



#### Main Specifications

Swing Over Bed	590mm
Swing Over Saddle	450mm
Max Turning Diameter	400mm
Max Turning Length	1280mm
Bar Working Diameter	102mm
Travel Distance (X,Z)	282mm, 1330mm

## HAAS ST-30 Turning Center

Haas ST-30 turning center is designed to be extremely rigid, highly accurate, and very thermally stable. The spindle heads feature a compact, symmetrical design for thermal stability and rigidity, and the 45-degree wedge design greatly increases the tool-mounting envelope and improves chip flow.

### Main Specifications

Max. Turning Diameter	533 mm
Max. Turning Length	660 mm
Chuck Size	10" (254 mm)
Bar working diameter	76 mm
Max. Spindle Speed	3400 rpm
Max. Spindle Motor power	22.4 kW



## HAAS ST-20Y Turning Center

The Haas ST-20Y Y-axis turning center provide 4" of Y-axis travel for off-centre milling, drilling, and tapping, and come standard with 6000-rpm live tooling and a servo-driven C axis for versatile 4-axis capability. This machine features next-generation digital servomotors on all axes for precise motion control, and are fully programmable tail-stocks for additional workpiece support. Robust tool turrets index quickly to reduce cycle times, and live tooling and C-axis options are available to perform secondary operations without refixturing improves part accuracy.

### Main Specifications

Max. Turning Diameter	305 mm
Max. Turning Length	533 mm
Chuck Size	8.3" (210 mm)
Bar working diameter	51 mm
Max. Spindle Speed	4000 rpm
Max. Spindle Motor power	14.9 kW



## Deep hole drilling machine

### PRECIHOLE BVN 100/1-300

Precihole's BTA Deep Hole Drilling Machines are well designed and robust to withstand extremely high cutting forces encountered during this operation. Machine is capable of handling very long and heavy workpieces. CNC controlled process allows high level of productivity and precision. For larger diameter deep hole drilling, BTA drilling is the only available option which provides high productivity and precision.

#### Main Specifications

BTA Solid Drilling range	Dia. 25 to 100 mm
Counter boring range	Up to dia. 165 mm
Range of Component OD	Dia. 50 to 300 mm
Max Length for $\Phi$ 50 mm Component	1,000 mm
Maximum Component Length	3,000 mm
Minimum Length of Component	300 mm
Maximum Drilling Depth	3,000 mm
Maximum Weight of the Component	1,500 kg



## Horizontal Tube Honing Machine

### Sunnen HTH-6000S

Sunnen make, tubehone machine with PLC controls offers high flexibility on a high production level with a stock removal rate of 800 cm<sup>3</sup>/h. HTH 6000S system features the new state-of-the-art bore geometry correction program indicating high and low spots in the bore and correcting the geometry without the intervention of the operator.

#### Main Specifications

Stock Removal Power	upto 800 cm <sup>3</sup> /h
Surface quality	RA 0.4
I.D. Capacity	25 - 450 mm
O.D. Capacity Standard	60 - 400 mm
O.D. Capacity Optional (with additional HT-350 Fixture)	350 - 600 mm
O.D. Capacity Special (with special work base)	70 - 1,000 mm
Maximum Honing Depth	6,000mm



# Vertical Milling Center

## Haas VF 3YT/50

The 4-axis Haas VF 3YT/50 VMC feature high-performance vector drive spindles, high-torque brushless servos on all axes, and rigid cast-iron construction. Configuration of 50 taper geared 30hp vector drive for high-torque, heavy-duty cutting to handle the most demanding high-speed machining operations.

### Main Specifications

X Axis	1016 mm
Y Axis	660 mm
Z Axis	635 mm
Spindle Nose to Table (~ max)	836 mm
Spindle Nose to Table (~ min)	200 mm
Table Length x Width	1321 x 584 mm
Max Weight on Table	1814 kg



## Oil Country Lathe

### Summit 42" Hollow Spindle Lathe

Summit 42" hollow spindle oil country lathe is designed to provide the precision and rugged reliability. Oil Country Lathe cover a wide range of work pieces and feature castings that are heavily ribbed for rigidity and vibration dampening. The extra wide bed ways are designed to provide high accuracy and maximum stability. The additional third way is provided on the front of the bed prevents deflection even in the heaviest cuts.

### Main Specifications

Swing over bed	1,060mm
Swing over cross slide	750mm
Swing in Gap	1,610mm
Width of gap	570mm
Max turning dia	800mm
Max turning length	3000mm
Max workpiece weight	6800kg
Threads per inch	1-16
Spindle bore	310 mm



## Conventional Lathes and Drilling Machines

### ABL-1000 Geared Lathe Machine

#### Main Specifications

Max turning dia	400mm
Max Turning length	1828mm



### Gujarat Lathe Manufacturing Panther GLEH/2

#### Main Specifications

Max turning dia	400mm
Max turning length	2130mm



### Shreekanth Heavy Duty Lathe

#### Main Specifications

Max turning dia	400mm
max turning length	2438mm



### Drilling Machine ABL- 65B

Drilling Cap. in Steel/ Cast Iron	65mm/75mm
Drilling Depth	325mm
Drill Head Traverse	1200mm



### Drilling/Tapping Machine ITCO DM-TM-25

#### Main Specifications

Drilling capacity	25mm
Tapping capacity	25mm
Spindle travel	165mm

## Cutting Machine

### Ship machine tools LMG 450A

Cutting dia range	10mm - 450mm
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## Overhead Crane

The overhead double girder crane of 30 ton capacity with 40m x 10m travel is installed for loading and unloading workpieces onto machines as well as for transportation.



## Phosphating and Paint shop

7 tank hot phosphating facility is installed as per IS standards to prevent corrosion and to prepare the metal surface for painting.



## SRP Assembly tooling

Petrol pneumatic sucker rod pump assembly tooling of handling dia range 25mm to 115mm for assembly of our Pro-lift range of sub surface sucker rod pumps.



## Engineering Design Lab

Our knowledgeable engineering professionals draw from their substantial experience and utilize the industry's top computer aided design (CAD) tools to design products. Products are engineered to comply with all applicable industry standards and regulations by validating mechanical designs, optimizing design performance, and prototyping critical components. Detailed technical specifications, Production planning, quality testing and product assembly instructions are incorporated by combined effort of mechanical engineering and production department.

# Measuring and Testing facilities

## Metrology Lab

Penguin's Metrology Lab uses most modern measurement equipments which include:

### Electronic Universal Testing Machine



### Impact Testing machine



### Height gauges



### Brinell hardness tester



### Digital temperature indicators

### Calipers

### Micrometers

### Bore gauges



## Hydro Testing unit

Portable hydrotesting unit of 20,000 psi capacity for testing Valves, Tubulars, Hoses etc.



## MPI (Magnetic Particle Inspection) Machine

In-house MPI machine of Dyeglo make for checking cracks in work pieces.



## Cable slippage testing machine

Machine for slip testing ESP cable and control lines on CCCP.



## Gauge Room

Components and parts manufactured by Penguin are measured for accuracy and tolerances using API certified gauges calibrated at our Metrology Lab to standards traceable to the NIST (National Institute of Standards and Technology).



# QHSE

## Quality Management System (QMS)

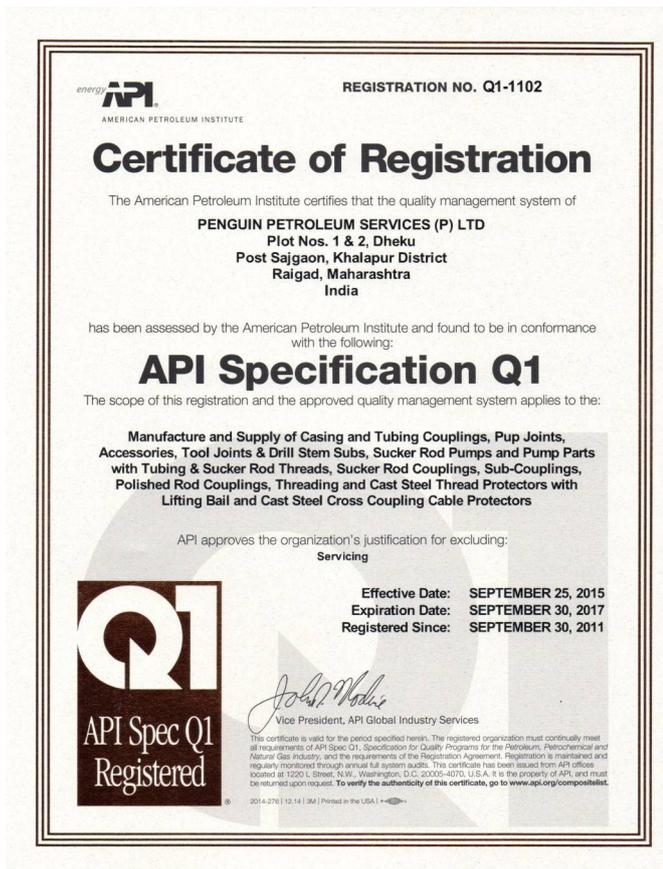
At Penguin, quality consciousness is a way of life and encompasses every activity it undertakes. Its employees are thoroughly trained to meet or exceed customer expectations and totally committed to delivering solutions that meet the highest quality standards. All procedures are well documented with strict control mechanisms and Quality Management System in place as per ISO & API Q1 requirements. Penguin's manufacturing facility is accredited with Quality/Industry certifications : ISO-9001, API Q1, API 5CT, API 5DP, API 7-1, API 11AX, API 11B & API 19G1.

## HSE Policy

The employees of Penguin are committed to prioritize health, safety and concern for environment in all interactions with their colleagues, associates, vendors, subcontractors, customers and business partners. Penguin places the highest priority on the health and safety of its workforce, on protecting its assets and safeguarding the environment around it.

## HSE Management System

Penguin has implemented a comprehensive program of safety standards, environmental and occupational standards and procedures which help in increasing its employees' HSE awareness, analyzing all identified hazards and strengthening its preventive maintenance measures. These steps ensure control of emissions and pollution and the efficient use of natural resources by reducing and recycling waste. Penguin continually strives to improve its HSE performance. Its goal is to have a responsible workforce with a 100% safety record, zero accidents and zero damage to its equipment and environment. Penguin has a fully compliant safety and environment management system in accordance with ISO 14001 & 18001 standards.



# API Certifications



**Certificate of Authority to use the Official API Monogram**  
**License Number: 5CT-1275** ORIGINAL

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QMS Exclusions: Design and Development; Servicing

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QMS Exclusions: Servicing

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