



ENERGY PIPELINE SERVICES



ABOUT

Energy Pipeline Services Pte Ltd, in short 'EPS', was established and incorporated in year 2007 with the mission to provide top-notch services, superior quality products and comprehensive supply solutions to the Oil & Gas Industry. In our debut, we began in the provision of exclusive support to our customers in the offering of pipe perforation, MIG/TIG welding and post-weld heat treatment (PWHT) services for the manufacturing of sand-control screens and its related components and accessories.

Since then, the company had expanded into the supply of raw steel materials in the form of mechanical tubular & round bars, OCTG pipings and rough forgings in cut-length or full-length to the Original Equipment Manufacturer (OEM) in the Oil & Gas field. To further add value to our customers and enlarge our screens and material distribution portfolios, we had diversified and transcended into a 1-stop shop wholesome turnkey service provider in supplying fully-completed down-hole tools, components and accessories, notably pup joints, flow coupling, crossovers, adapters etc in tight tolerances and finishing and threaded with API or premium connections. This is all made possible with our heavy investment in machining and threading machineries and equipment. By investing heavily on its machineries and facilities, EPS had further displayed its long term support to its customers.

EPS Manufacturing plants

Singapore (44,000 sq.ft):

37 Joon Koon Road, Singapore 628989

Malaysia (15,000 sq.ft):

PTD No.5, Jalan Mega 1/4, Taman Perindustrian Nusa Cemerlang, 79200 Nusajaya, Johor, Malaysia

EPS Satellite Storage House

China (100,000 sq.ft): Liaoning Province

The company is devoted to offer customized services and at the same time delivering quality products to support its customers' dynamic demand. EPS has since earned its recognition and gained numerous accolades from our wide spectrum of services to the OEMs, as well as their end-users and turnkey vendors in the supplying of

- 1) Raw steel material
- 2) Fully-fabricated components and accessories
- 3) Screens
- 4) Engineering services in pipe perforation, welding, PWHT, band-saw cutting, machining, threading.

EPS had been awarded with Quality Management System certification by ISO 9001 : 2008 and the achievement of BizSAFE certification (level 3) in 2012. EPS was also listed on the Singapore SME 1000 Company in 2012.



TURNKEY & OTHER SERVICES

Over the years of raw material distribution, we had gradually transformed into a one-stop turnkey service provider to our customers. Our strategic move is to provide value-added services like machining, threading, coating, welding and testing services to them. With our external support, value was perceived by our customers when our solutions unfold.

BAND-SAW CUTTING

In our main plant, we are furnished with three internationally recognized saw cutting machines from its excellent blend of durability and efficiency. These machines help to support our customers' need of short delivery lead time. Our cutting machines are armed with the capability of sawing with material diameter up to Ø25".

MACHINING

It is our great desire to develop a broader range of products constantly as a turnkey service provider to provide customized service to our customers' needs. Over the years, we have reaped our competitive advantage with the establishment of strong business relationship with our machining vendors. With that, we are able to support a wider range of turnkey products, as well as a more competitive pricing, to our customers. On the other hand, we had also invested in certain machines to provide in-house drilling and machining services to cater for the raising demand. Our machines comprises of deep hole boring, honing, milling, CNC and manual lathe. With our machining capabilities, we are able to provide exclusive support to our customers for raw materials in the form of tubings, pipings, casings and forgings for its oil & gas related finished components and accessories notably blast joints, pup joints, flow couplings, to name a few. EPS has since earned its recognition as a reliable and notable value-added service provider in the oil and gas industry.

THREADING

The accessories are incomplete without threading on the connections. From the excellent bonding with our threading vendors, we are able to extend our offer with threads regardless of premium or non-premium connections (API threads) in our turnkey package at a very competitive price to allow our customer to enjoy some cost savings. Our comprehensive premium connection covers Tenaris Hydril, V&M, Hunting, Atlas Bradford and JFE threads family.

TESTING

Our testing services comprise of Mechanical and Chemical Analysis. We are equipped with 2 sets of Brinell hardness testing tools to conduct 100% hardness testing on all our incoming raw materials. Chemical analysis and charpy impact testing requirements are outsourced to reputable and reliable testing centers.

COATING

Quality and professional bead blasting is another in-house service that we offer to our customers. In addition, with the great support from our coating vendors, we are also able to offer the below different types of coatings into our attractive packages to our customers.

Common coatings

Phosphate, Fluoropolymer, Copperplate, Xylan, Phenolic Novolac Powder.



4130 Round Tube

Grades	Outer Diameter (O.D.)	Wall Thickness (W.T.)
L80	3.375" - 3.950"	0.500" - 0.647"

4140 Round Tube

Grades	Outer Diameter (O.D.)	Wall Thickness (W.T.)
L80	4.000" - 8.750"	0.335" - 1.625"
P110	4.125" - 8.750"	0.500" - 1.900"
P125	4.125" - 8.500"	0.688" - 1.625"

9Cr1Mo Round Tube

Grades	Outer Diameter (O.D.)	Wall Thickness (W.T.)
L80	4.000" - 5.120"	0.545" - 1.000"

13Cr Round Tube

Grades	Outer Diameter (O.D.)	Wall Thickness (W.T.)
L80	4.062" - 8.750"	0.650" - 1.875"
C95	4.062" - 8.000"	0.650" - 1.500"
P105	4.062" - 8.750"	0.650" - 1.625"

8620 Round Tube

Outer Diameter (O.D.)	Wall Thickness (W.T.)
6.500" - 9.000"	1.375" - 2.000"

1018 Round Tube

Outer Diameter (O.D.)	Wall Thickness (W.T.)
5.500" - 9.000"	1.000" - 1.750"

OCTG

Grades	Outer Diameter (O.D.)	Wall Thickness (W.T.)
API 5CT J55/K55	2.375" - 9.625"	4.60# - 47.00#
API 5CT L80	2.375" - 9.625"	4.60# - 47.00#
API 5CT P110	4.000" - 7.625"	9.50# - 39.00#
API 5CT 13Cr L80	2.875" - 7.625"	6.40" - 39.00#

Stainless Steel Round Tube

Grades	Sizes
316/316L	Assorted



PERFORATION

During the growing phase, EPS was first incorporated with two 27-spindles semi-CNC perforation line. To cater for the rising demand, in 2009, EPS expanded with a total of four perforation lines to support its existing customers. In 2010, EPS further proved its capabilities by converting its existing four perforation lines to vertical top down, fully CNC. In our continuous pursuit in manufacturing excellence, we again re-design and converted 2 existing vertical top down to now our signature 37-spindles fully CNC perforation line to improve on our productivity.

Our signature spindles were also originated from Japan which kicked in with a higher accuracy in terms of alignment during the entire perforation process regardless of material grades. With the flexibility and superior design in our perforation machines and equipment, we are capable of perforating a wide range of perforation designs regardless of complexity such as spiral or staggered patterns. We are able to humbly yield 1,200 joints per month, operating at two shifts. We pride ourselves in being capable of handling the most complex drilling patterns and configurations. We assure that we will give the best of quality in our drilling works, stringent quality controls and at all times demonstrating full satisfaction to our customers.

DEBURRING

With almost over 3000 perforated holes in typical perforated pipe, removal or deburring of the metal burrs, chips, fillings in these holes has been a constant challenge for a screen pipe manufacturer. EPS has pioneered a pipe deburring machine system with a proprietary self-designed deburring head featuring high tensile brushing wires and tensional spring-loaded deburring blades which could effectively and speedily removes all burrs and metal chips. In order to meet customer's stringent requirement on a premium perforated pipe, 100% deburring is a must before moving on to the next process and EPS had prided itself in achieving superior, clean, burr-free, accurate holes in every pipe output.

WELDING

We are proud to provide our welding services to our oil and gas customers as we have a highly competent team of welders with at least 15 years of industrial experience in the welding industry. In addition, all our welders are qualified as per ASME-XI edition. We are capable of offering two types of welding services such as fillet welding and groove welding on materials of Inconel, stainless steel as well as low alloy steel.

Types of welding machines

3 MIG (metal inert gas) Welding Machine

1 TIG (tungsten inert gas) Welding Machine

POST WELD HEAT TREATMENT (PWHT)

EPS is furnished with a number of Stress Relief Machines to perform PWHT. PWHT refers to heat treatment after welding, which is often used to improve the properties of the weldment. In basic concept, PWHT can encompass many different potential treatments. However, in steel fabrication, the two most common procedures used are post heating and stress relieving.

The need for PWHT is driven by requirements of our customer's specification, as well as the service environment. In general, when PWHT is required, the objective is to increase the resistance to brittle fractures and relaxing residual stresses. Other desired results from PWHT may include hardness reduction and material strength enhancements.

Presently, the company is equipped with four heat treatment machines. The machines provide accurate temperature control as well as having the ability to ensure stabilized dwelling/soaking time (Constant heating versus Timing).

Each machine is connected with four channels. Each individual channel is made up of an outer layer of ceramic fibre to prevent heat leakage and at the same time to allow better temperature control during the entire heating process. The inner area consisted of an inner heating pad that is covered by the outer layer ceramic fibre, the entire blanket function is to act as a wrapper, to wrap onto the desired weldment area to carry out stress relief work.

Our machines have the capabilities of generating the temperature up to the max of 1,200°C and at the same time providing all relevant temperature graph records to ensure desired heating temperature is achieved.



WHERE OUR PRODUCTS BERTH

Throughout years of supply, our company is blessed with the opportunity to participate in its customer's supply chain, in which its products eventually far reached to the end users which are located at other geographical regions.

With the recognition from our customers as a reliable and notable value-added service provider, EPS is extremely proud to be in the participation of numerous big league projects such as Brazil Petrobras, Saudi Aramco, India ONGC, Reliance India, Petronas Malaysia, Conoco Philips China, ExxonMobil, Brunei Shell, Devon Brazil, Indonesia Kodeco, Egypt Petrobas/Petrobel and TOTAL Indonesia and Angola project. EPS has again achieved another milestone with the accomplishment on these projects. The below map indicates the landing of our value added products through our customers to the end users.



RANGE OF MATERIALS

We are committed to meet our customer's delivery requirement by maintaining a wide range of mechanical tubings at a strategic satellite storage houses of 20,000 sq. ft. in Singapore and another 100,000 sq. ft. in China in complementing our 2 main manufacturing plants in Singapore and Malaysia.

We believed that we could play a significant role in elevating our customers to a more competitive position by providing support through tubings which helps to bring down costs on raw material and machining aspect.

Through the years of collaboration, EPS gained its competitive edge from the strong support rendered by its various strategic business partners such as DAYE (Hubei Xinyegang) mill, JFE mill, Sumitomo mills, ISMT (India Seamless) mill and V&M mill to assist in stocking good volume of materials in the likes of 4130, 4140, 9%Cr, 13%Cr, OCTG, as well as 316/316L.

The company only believes in supplying quality materials with mill certification traceability and ensures compliance with customers' specification before delivery.

Our customers can rely on our inventory management approach that delivers good quality materials, reliable lead time as well as cost reduction.





DEEP-HOLE BORING & HONING BUSINESS UNIT

The Expert in large-hole and deep-hole machining

In the wide arena of machining endeavors, EPS prides itself to be the leading exponent not only in the machining field of deep-hole and long-shaft turning, but also boring and honing for both oil & gas and marine industries. Our forte lies in our expertise in managing deep-hole lengths up to 20ft, and inside diameters as wide as 10 inches on a wide array of steel types, notably Inconel family in 925 and 718 series.



Flagship Machine Shop endowed with a strong stable of machines and equipment

Our manufacturing plants at various locations around the geographical region houses our flagship machine shops, each endowed with a strong stable of machines. These include deep-hole boring machines, honing machines, long-shaft turning machines and heavy presses to offer comprehensive, round-the-clock deep-hole boring support to our oil & gas and marine clients. We employ the most reputable machine makers in our selection of best mix of reliable, high-performance machines for our deep-hole boring business unit. We employ only the best equipment and boring tools in order to achieve consistent tight tolerances, superior drill finishes and stringent surface roughness requirements. Sandvik (Sweden) and Botek (Germany) are both strong partners in supporting EPS's needs of premium drilling and boring equipment, as well as machinery accessories.

Signature specialty - Off-center drilling

In our wide spectrum of machining capabilities and services offered, off-center drilling is our key signature specialty. We had met with great success in developing new machining methods and processes to produce off-center machining features with consistent reliability and speed.



Master Craftsmanship & Superior Quality guaranteed

The finest machines in the world may not produce the best desired works. The people manning the machines are the heart and soul in pushing these mechanical beasts to realize their optimal performance and our desire of market-leading standards. EPS possesses an outstanding pool of master craftsmen, experienced machinists and qualified engineers who have deep passion and competency to produce good quality work and products that meet the highest industrial specifications, design requirements, and superior aesthetic finishing and workmanship.



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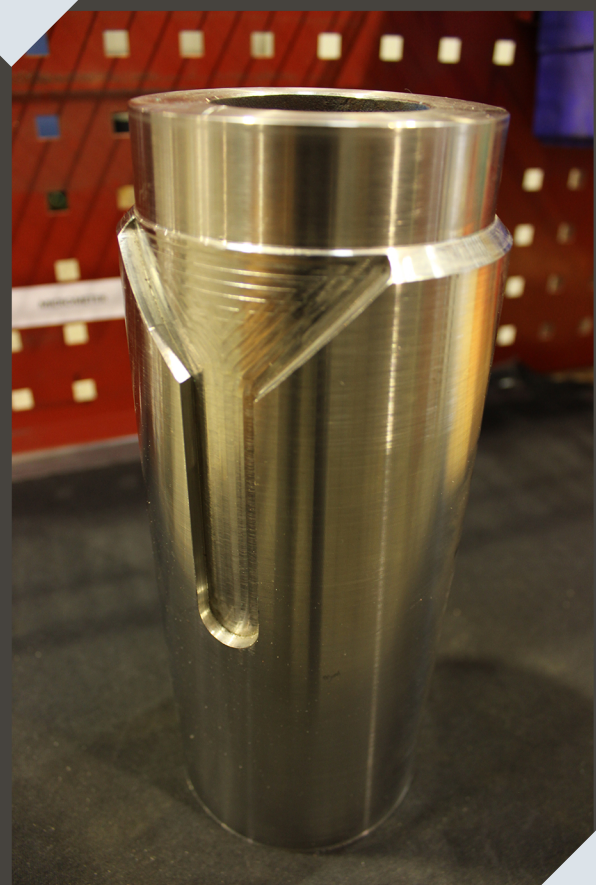


www.energypipeline.com.sg

PRECISION MACHINING & THREADING BUSINESS UNIT

The MasterCraftman in precision finesse

In our wide array of machining services offered, EPS has long been recognized as a master craftsman in precision machining. We pride ourselves as a leading manufacturer in producing precision, highly complex and intricate steel components and accessories for the oil & gas, marine and aerospace industries through our extensive capabilities in multi-axis CNC turning, drilling and milling. Our forte lies in our expertise in managing products with inherently complex and intricate machining features of exceptional demand on tolerances and finishing.



Flagship Machine Shop endowed with a strong stable of machines and equipment

Our manufacturing plants at various locations around the geographical region houses our flagship machine shops, each endowed with a strong stable of CNC horizontal and vertical turning machine centers and multi-axis milling centers to offer comprehensive, round-the-clock precision support to our oil & gas, marine and aerospace clients. We employ the most reputable machine makers in our selection of best mix of reliable, high-performance machines for our precision business unit. We employ only the best equipment and machine tools in order to achieve consistent tight tolerances, superior finishes and stringent surface roughness requirements. Sandvik (Sweden) and BoteK (Germany) are both strong partners in supporting EPS's needs of premium precision tools and equipment.

CNC Threading

Within our precision machining domain, we offer threading capability and services in API 5CT/5B connections, mechanical connections and Unified Thread Standards (UTS). We are equipped with comprehensive inventory of API thread gauges and metrological centers. We too, possess in-house sand-blasting and bead-blasting capabilities for thread surface treatment. Our sand-blasting and bead-blasting capabilities have gained endorsement from various global thread designers.

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