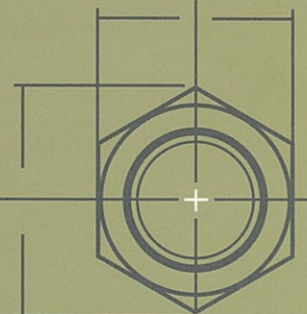




ENGINEERED FOR QUALITY, BUILT TO LAST



Seng Heng Engineering Pte Ltd



成興機械私人有限公司 SENG HENG ENGINEERING PTE LTD



A COMPANY DRIVEN TO EXCELLENCE

Engineering Prowess

Seng Heng Engineering has over 60 years of experience in manufacturing and customising high quality bolts and nuts for a wide range of industries. We invest in professional engineers who dedicate their expertise in providing products tailor-made to our customer's specific requirements.

Superior Service

We take pride in our competitive pricing and on-time delivery anywhere in the world. Our dedication in providing a total package solution has helped us gain an excellent reputation in both domestic and international markets.

Shell, ExxonMobil, Reliance Industries, KBR, SMOE and Keppel are just some of our customers who call on us for our service excellence.

Continuous Growth

Through the years, we have forged long-term partnerships with our diverse clientele. Sixty years on, we remain committed to our customers' trust and loyalty, motivated by a genuine passion for continuous improvement on our products and services.

We keep up with global trends and employ the latest in technology. This includes a sophisticated ERP system for order processing, coupled with an online traceability software for efficient product tracking to guarantee that your orders are in good hands. Likewise, we developed a highly flexible manufacturing system that produces a wide range of products, in small or large scales, on demand.



CERT. NO.: 92-2-0051
SS ISO 9001:2000



TRADE EXPERTISE

Seng Heng Engineering has a solid track record in providing products and services for turnkey projects to a wide range of industries.

- Oil & Gas
- Marine
- Civil
- Structural
- Power Plants
- Light / Heavy Industries



GUIDING PRINCIPLES

Mission

We are a forward-looking company empowered to strengthen our position as specialists in manufacturing and stocking high quality fasteners.

Vision

A leader in providing fasteners for projects on a global scale.

Value System

We are strongly committed to "Deliver Quality Products On Time", a philosophy that has earned us our impressive track record in the last six decades.

PRODUCT LINE-UP



Petrochemical Bolts

Our core strength is in manufacturing bolt assembly for the petrochemical industry. Materials include various grades of alloy, carbon and stainless steels based on standards from ASTM, AISI, ISO, BS and SAE.

Diameter Range: 1/4" - 5", M5 - M100

Structural Hex Bolts

We supply a wide range of heavy duty bolting for joints in structural steel.

Specifications

- BS 3692 Gr 8.8, 10.9, 12.9
- ASTM A325 High Strength Bolts
- JIS 1186 F10T, BS 4395 Part 1,2,3 High Strength Friction Grip Bolts
- Torque Shear Type High Strength Bolts (TC Bolts)
- BS EN ISO 3506 A4-70/80, BS EN ISO 3506 A2-70/80
- SAE Grade 5, 8, 10
- A490 Type 1
- SS 316, SS 304, SS 316L

Diameter Range: 1/2" - 2", M12 - M52



	SAE J429 Gr 5		ASTM A193 G/B8		SS304
	SAE J429 Gr 8		ASTM A320 Gr L7		SS316
	ASTMA307 Gr A		A193 G/B8M		SS316L
	ASTMA307 Gr B		BS 3692 GR 4.8		BS EN ISO 3506 A2 - 50
	ASTM A325 TYPE 1		BS 3692 GR 8.8		BS EN ISO 3506 A2 - 70
	ASTM A490 TYPE 1		BS 3692 GR 10.9		BS EN ISO 3506 A2 - 80
	ASTM A193 Gr B7		BS 3692 GR 12.9		BS EN ISO 3506 A4 - 50
	ASTM A193 Gr B7M		JIS B1188 Class F8T		BS EN ISO 3506 A4 - 70
	ASTM A193 Gr B16		JIS B1185 Class F10T		BS EN ISO 3506 A4 - 80

PRODUCT LINE-UP

Anchor Bolts / Foundation Bolts

Our anchor / foundation bolts are specially customised to our customer's drawings required mainly for turnkey projects such as LNG, refineries and power plants.

***As per customer's requirements**



Special Grade Fasteners

Special grades of fasteners are specially manufactured as they are resistant materials well suited for service in extreme environments. These materials are also effective against temperature and pressure services such as pressure vessels and valve flanges.

Diameter Range: 1/4" - 5", M5 - M100

Threaded Rods / Tie Rods

We stock an extensive range of threaded rods and bars of various materials ranging from carbon, alloy, duplex and stainless steel. These allow for easy customisation and quick delivery response to our customers.

Diameter Range: 1/4" - 5", M5 - M100



U-bolt / U-Clamp

We manufacture a large variety of U-bolts and U-clamps to cater to different types of steel pipe sizes.

Pipe Size Range: 3/4" ~ 36"



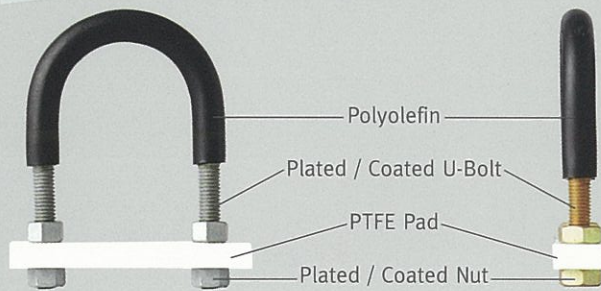
Polyolefin Coated U-Bolts

Features

Polyolefin U-bolt is a seamless, vulcanized, polyolefin material that can be applied to all types of U-bolts. Polyolefin U-bolt is excellent for eliminating corrosion problems on piping in refineries, chemical plants, paper mills, rigs and the shipping industry. It serves as an excellent shock / vibration absorber for plastics, FRP or glass-lined pipes.

Corrosion Preventive Solution

Accelerated corrosion can occur between pipes and uncoated U-bolts due to metal contact between the U-bolt and pipe (galvanic corrosion). This interaction can be completely eliminated by utilising a PTFE pipe support pad and the polyolefin protected U-bolt followed by fluorocarbon coating on the base material.



*Base material and coating will be based on customer's requirements.

***As per customer's requirements**



Nuts

We have an extensive range of nuts in stock to couple with your bolt usages in accordance to international standards such as ASTM, DIN and BS EN ISO.

Diameter: 1/4" ~ 5", M5 - M100



Customised Machining Products

As part of our flexi-manufacturing system, we specialise in machining items that require threading and other precision components in accordance with customer's drawings.

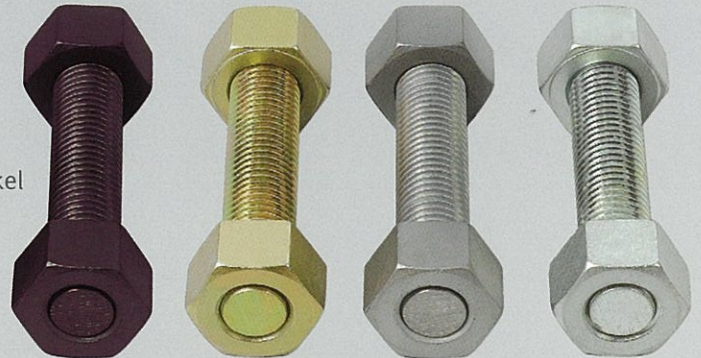
***As per customer's requirements**

COATINGS

We provide an extensive range of plating and coatings designed to withstand harsh conditions and provide outstanding temperature, chemical, abrasion and corrosion resistance. With these services available, we have the production capabilities to customise a multilayered-coating system ideal to your specific environment.

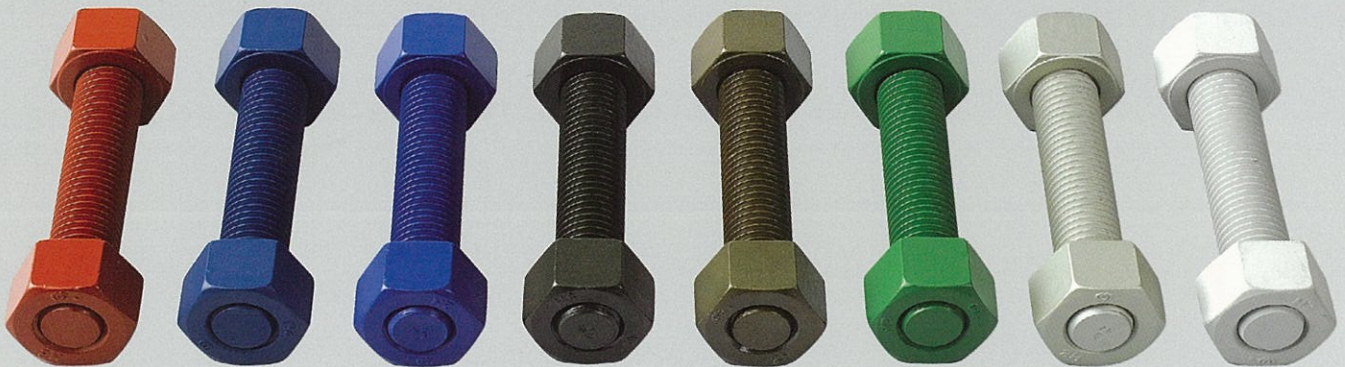
Plating

- Zinc (White / Yellow / Black)
- Zinc Nickel
- Cadmium (White / Yellow / Black)
- Electroless Nickel



Galvanising

- Hot-Dipped Galvanise
- Mechanical Galvanise



Fluorocarbon Coating

SermaGard® Coating Systems:

- 1105
- 1280
- 1628
- 1175

Xylan® Coating Systems:

- Xylar 2
- 1014
- 1070
- 1052
- 1424

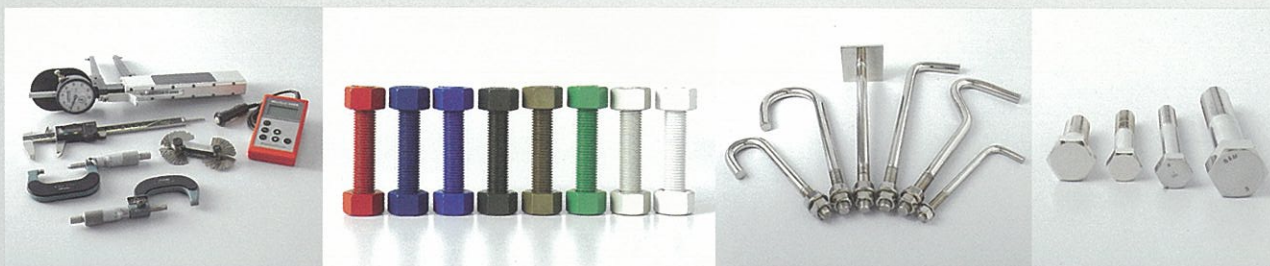
Molykote® Coating Systems:

- 7409

Customised Coating Systems

- Zinc + Fluorocarbon / PTFE
- Cadmium + Fluorocarbon / PTFE
- Zinc Nickel + Fluorocarbon / PTFE
- Hot-Dipped Galvanise + Fluorocarbon / PTFE

GLOSSARY



Alloy Steels

ASTM A193 B7, B7M, B16, B5
 ASTM A194 2H, 2HM, 3, 4, 7, 7M, 16
 ASTM A320 L7, L7M, L43
 BS 3692 Grade 10.9, 12.9

Carbon Steels

ASTM A325 Type 1
 ASTM A490 Type 1
 ASTM A307 Grade A, B, C
 BS 3692 Grade 4.8, 8.8
 SAE J429 Grade 5, 8, 10

Stainless Steels

ASTM A193 B6, B8 Class 1 & 2,
 B8M Class 1 & 2, B8T Class 1 & 2,
 B8MA, B8A
 ASTM A194 6, 8, 8A, 8M, 8MA, 8C, 8CA, 8T
 ASTM A320 B8 Class 1 & 2, B8M Class 1 & 2,
 B8T Class 1 & 2, B8MA, B8A
 ASTM A453 660 Class A / B / C / D
 ISO 3506 A2-50, A2-70, A2-80, A4-50, A4-70,
 A4-80, A4L-80
 AISI SS 304(L), SS 316(L), SS316 Ti
 Nitronic 50/60[®] B8R, B8S
 Others[®] 17-4 PH, FV 520B, Sanicro 28,
 Carpenter 20CB-3

Duplex Stainless Steels

UNS S31803, S32750, S32760
 (SA, FG, FLT)

Nickel Alloys

Hastelloy[®] B2, C4, C22, C276, G, G-3, X
 Incoloy[®] 800, 800HT, 825 DS, Ra330
 Inconel[®] 600, 601, 625, 718
 Monel[®] 400, K500

Copper Alloys

Aluminium Bronze B150, CA104, DGS
 1043/1044,
 NES 833/834/ 835
 Phosphor Bronze PB102
 Cupro Nickels 70/30, 90/10

Other Material Grades

Titanium GR 2/5/7
 Durehete[®] 900, 950, 1055

Plating

Zinc ASTM B633
 Cadmium ASTM B766
 Zinc Nickel ASTM B841
 Electroless Nickel ASTM B733
 Phosphate ASTM F1137

Galvanising

Hot Dip Galvanise ASTM A153/
 BS EN ISO 1461:1999
 Mechanical Galvanise ASTM A695

Coatings

Xylan [®]	SermaGard [®]	MolyKote [®]
Primer P-92	1105	7409
Xylar 2	1175	
1010	1280	
1070	1628	
1014		
1052		
1424		

OUR CLIENTE

Aker Kværner

Bechtel Corporation

Cameron

CB&I (Chicago Bridge & Iron Company N.V.)

Chevron Corporation

Cuel Ltd

ExxonMobil

FMC Technologies

Foster Wheeler Ltd

J. Ray McDermott

KBR, Inc.

Keppel Shipyard Limited

Petrobras S.A.

PETRONAS (Petroliam Nasional Berhad)

PTSC (Petroleum Technical Services Corporation)

Punj Lloyd Limited

Reliance Industries Limited

Saipem

Saudi Aramco

Saudi Kayan Petrochemical Company

Shell Group of Companies

Singapore Technologies Marine

SMOE (Sembcorp Marine Offshore Engineering)

SNC-Lavalin

Técnicas Reunidas

VetcoGray (GE Oil & Gas)



OUR GLOBAL REACH (Over 33 Countries)



Middle East

- Egypt
- Iran
- Jordan
- Kuwait
- Oman
- Pakistan
- Qatar
- Saudi Arabia
- UAE

Asia Pacific

- Australia
- Brunei
- China
- India
- Indonesia
- Japan
- Korea
- Malaysia
- New Zealand
- Philippines
- Singapore
- Thailand
- Vietnam

Europe

- Belgium
- France
- Italy
- Netherlands
- Spain
- Switzerland
- United Kingdom

North America

- Canada
- United States

South America

- Brazil
- Chile

Seng Heng Engineering Pte Ltd

No.3 Eunos Ave 8A, Singapore 409458
Tel: (65) **6745 1277** Fax: (65) **6748 9634**
E-mail: she@she.com.sg Web: www.she.com.sg