

# S&W

Your Reliable Partner...



- INDUSTRIAL BOLT & NUT
- MARINE ENGINE COMPONENT
- FORGING BLANK

## S&W Corporation

### Marine Engine Factory

29, Dadae-ro 170beon-gil,  
Saha-gu, Busan, Korea

Tel. +82-51-205-7411~6

Fax. +82-51-205-7417

<http://www.snwcorp.com>

E-mail: snw@snwcorp.com

### Industrial Bolt/Nut Factory

601, Eulsukdo-daero,  
Saha-gu, Busan, Korea

Tel. +82-51-209-2300

Fax. +82-51-209-2360

<http://www.snwcorp.com>

E-mail: snw@snwcorp.com

### Forging Blank Factory

80-24, Gomp-ro, Jillye-myeon,  
Gimhae, Gyeongnam, Korea

Tel. +82-55-345-9815

Fax. +82-55-345-9820

<http://www.snwcorp.com>

E-mail: snw@snwcorp.com



CEO. Jung HwaSup.

1960's

Mar. 1967 Founded "Shinil Industries co." as manufacturer of Bolt & Nut.

1980's

Jul. 1987 Expanded and moved to Shinpyung-dong, Saha-gu, Busan, Korea

1990's

Jan. 1990 Changed company name as Shinil Bolt Industrial co., Ltd."

Dec. 1993 Acquired ISO 9001 Quality certificate from LRQA

Jul. 1997 Established "Woosung Valve co., Ltd."  
as specialized manufacturer of Marine Engine components

Dec. 1999 Established Jinrye factory for manufacturing of forging part

2000's

May. 2000 Acquired KEPIC MN, SN certificate as manufacturer of Bolt & Nut for Nuclear Power plant by KEA.

May. 2003 Incorporated and changed to S&W corporation as a specialized manufacturer for Marine Engine component, Industrial Bolt & Nut and forging blank.

Jun. 2003 Establishment Company Laboratory for Engine component

May. 2005 Certificated "Innovation Business Company"

Jun. 2007 Supply Agreement with MAN Diesel & Turbo se

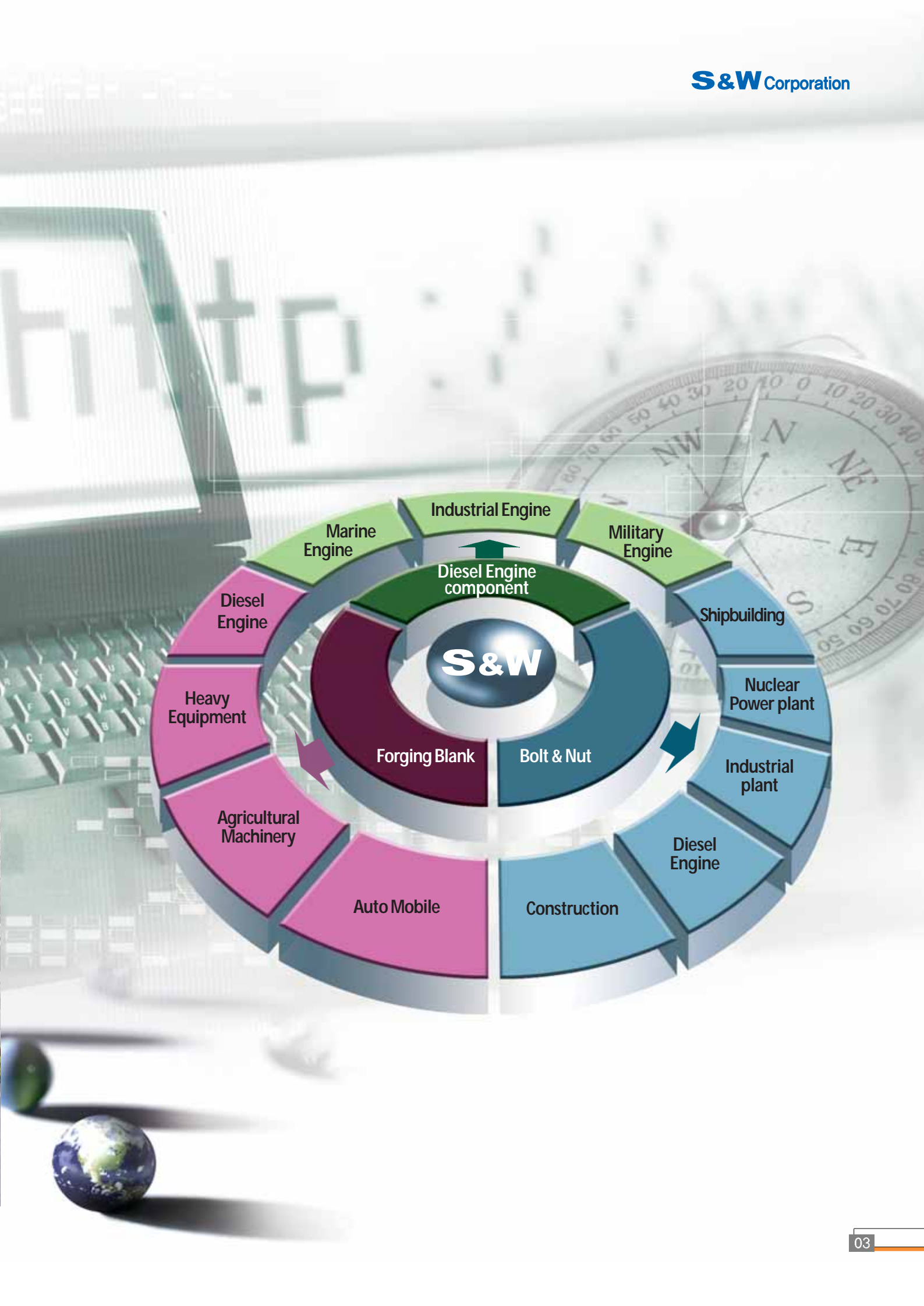
Mar. 2008 Supply Agreement with Wartsila

Aug. 2009 Registered on KOSDAQ

Apr. 2013 Parts supplied to the NOV

Jan. 2015 Supplier with excellence in quality - HHIEMD

Apr. 2017 Registered on National Defense Venture Center





## INDUSTRIAL BOLT / NUT

Based on more than 50 years experience,  
S&W can supply any kind of customer's request and all process is controlled  
by best quality system.



### Product

#### Material

- Carbon Steel : S10C, S20C, S35C, S45C, A36, A307-B
- Stainless Steel : 22Cr Duplex, 25Cr Duplex, Type 304/304L/316/316L/321/347, A453-660, Type 6Mo, XM-19
- Alloy Steel : A193-B7/B7M/B16, A320-L7/L7M, A194-2H/2HM/4/7/7M, SNCM439, SCM440, A325, A490
- Nickel alloy : INCOLOY ALLOY 800H/800HT/925, INCONEL ALLOY 625/718/C-276, Monel 400/K-500

#### Production Range & Capacity

- 1,000 Ton per month
- Diameter : M12(1/2 inch) ~ M200(8 inch)
- Length : Max 10,000 mm(400 inch)

#### Applicable Standard

- ASME
- ASTM
- JIS / KS
- DIN / EN / ISO

#### Surface Treatment

- Plating : Zn, Ni, Cr, Ag, Cu, etc...
- Coating : Hot-Dip, Electronic Galvanizing, Mechanical Deposit Teflon (Fluoro Polymer, Fluoro Carbon), Xylan, Sermagard, Cadmium, Aluminum, Moly, Dacro etc..



> ISO 9001



> CE-PED



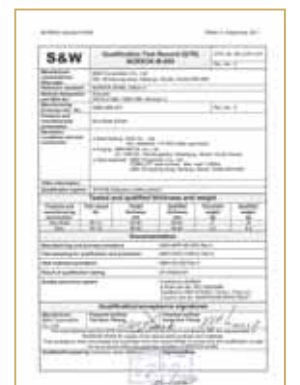
> OHSAS 18001



> ISO 14001



> KEPIC(Nuclear)

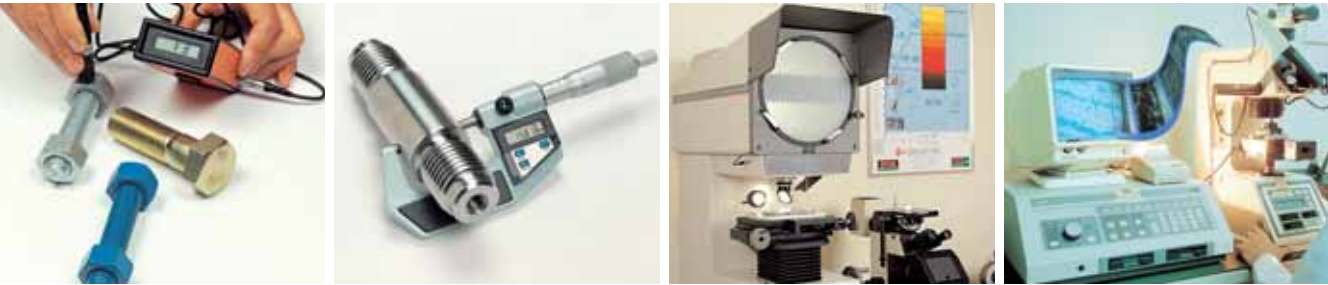


> Norsok M-650(S32760 QTR)



Manufacturing System

Process	Execution	Quality Control
Heat Treatment (Q/T) Machining Thread Rolling Head Forging Nut	S&W	S&W
Surface Treatment - Plating - Coating	Sub Vendor	S&W



Main Customer & Project Experience

Engineering & Plant

- Doosan Heavy ind. & con. co., Ltd.
- Hyundai Engineering & con. co., Ltd.
- Daewoo Engineering & con. co., Ltd.
- Samsung Engineering co., Ltd.
- Daelim Industrial co., Ltd.
- SK Engineering & con co., Ltd.
- GS Engineering & con co., Ltd.
- Samsung C&T Corporation
- Toyo Engineering co., Ltd.
- Hanhwa Engineering & con. co., Ltd.
- Hyundai Engineering co., Ltd.

Petrochemical

- GS Caltex Corporation
- S-OIL Refining co., Ltd.
- Hyundai Oil Refining co., Ltd.
- SK Corporation co., Ltd.

Shipbuilding & Offshore plant

- Hyundai Heavy ind. co., Ltd.
- Samsung Heavy ind. co., Ltd.
- Hyundai Samho Heavy ind. co., Ltd.
- Hyundai Mipo Shipbuilding co., Ltd.
- Hanjin Heavy ind. co., Ltd.
- Stx Shipbuilding co., Ltd.
- Daewoo Shipbuilding & Marine Engineering. co., Ltd.
- National Oil Well Varco Korea

Oversea

- Ebara Corporation
- Hitachi Zosen Corporation
- Ishikawajima Heavy ind. co., Ltd.
- Mitsubishi Heavy ind. Ltd.
- Toyo Engineering
- The Japan Steel Works (JSW)

Nuclear Power Plant (Korea)

- Wolsung (#1, 2, 3, 4),
- Ulchin (#1, 2, 3, 4, 5, 6)
- Yongkwang (#1, 2, 3, 4)
- Kori & singori

Power Plant (Korea)

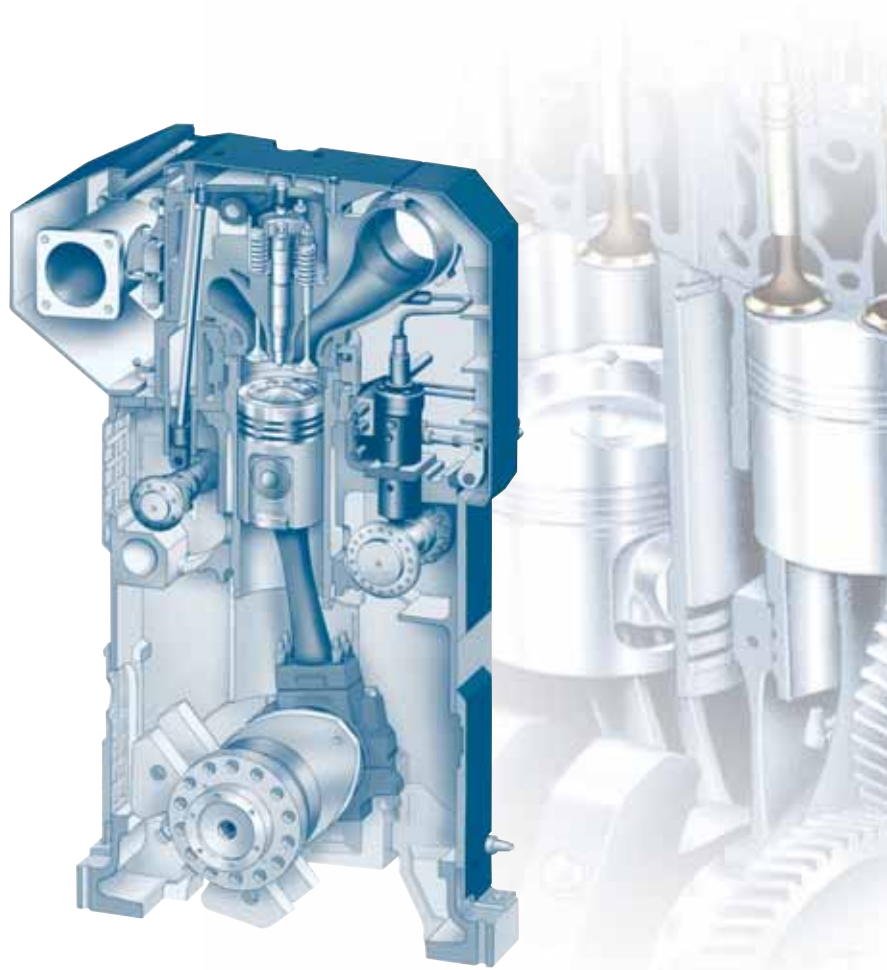
- Taeon (#1, 2, 3, 4),
- Hadong (#1, 2, 3, 4, 5, 6)
- Samchunpo (#1, 2, 3, 4, 5, 6)
- Dangjin (#1, 2), Bundang
- Seoincheon Combined
- Boryeong

Oversea Project

- ONGC (India)
- KIZOMBA (USA)
- SAKHALIN (Russia)
- DALIA FPSO (Angola)
- SABLE OFFSHORE ENERGY (Canada)
- SOUTH PARS (Iran)
- LAFFAN REFINERY (Qatar)
- SOHAR (Oman)
- BP ANGOLA BLOCK (Angola)
- SHOAIBA DESALINATION PLANTS (Saudi Arabia)
- EAST AREA (Nigeria)
- NGL-4 (Qatar)
- ATTADY GAS (Lybia)
- LASCO (Lybia)
- IBN ZAHR (Saudi Arabia)
- PEMEX SALAMANCA (Mexico)
- SADAF (Saudi Arabia)
- KOC, KPPC (Kuwait)
- MAT TA PHUT AROMATICS (Thailand)
- PETRONAS FLOATING LNG PJT (Malaysia)
- UPPER ZAKUM 750K PJT (UAE)



# 4-STROKE ENGINE COMPONENT



Camshaft



Valve Spindle



Valve Seat



Prechamber, Clamp, etc



Bolt / Nut for Assembling



Piston Pin

## Product

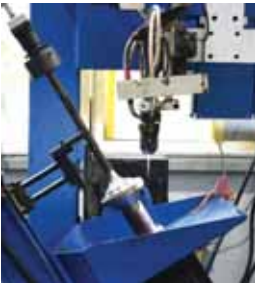
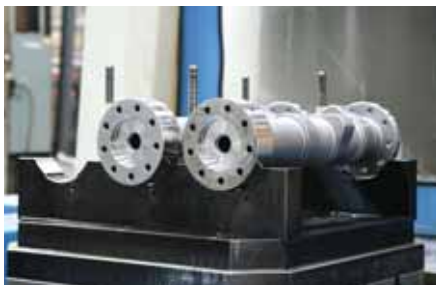
- Camshaft
- Valve Spindle / Seat
- Piston Pin
- Bolt / Nut for Assembling
- Clamp / Con Piece

## Engine Model

- Man Diesel
- MTU
- Others

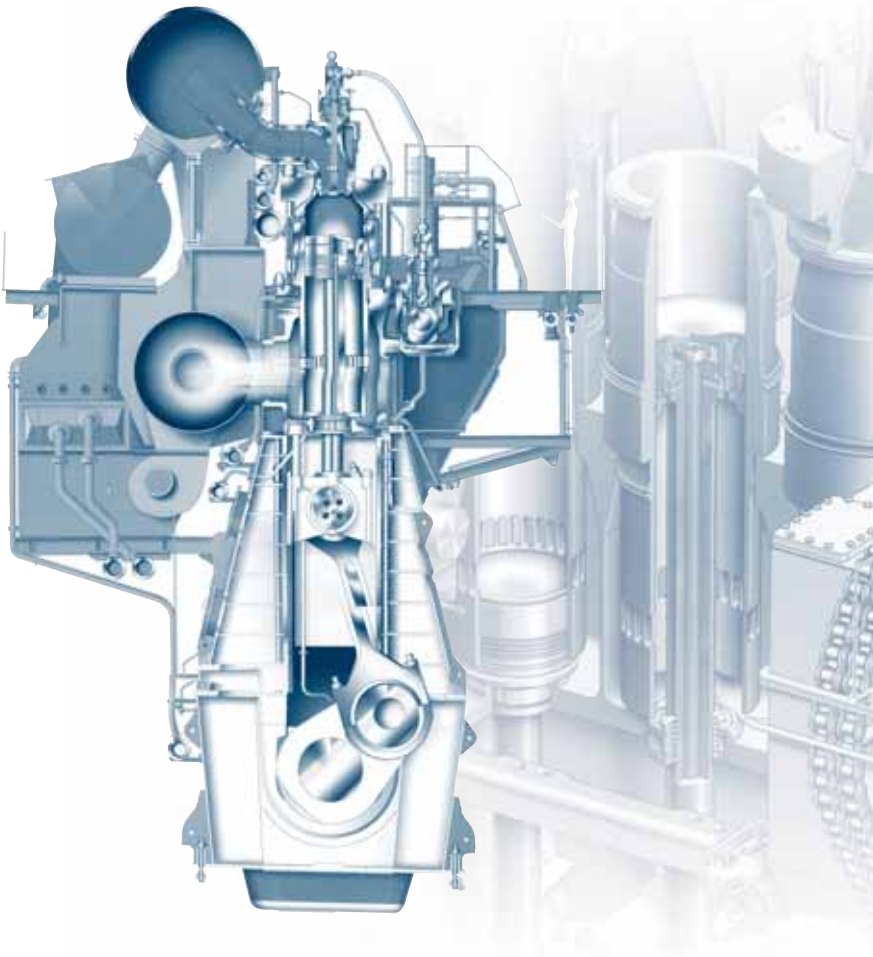
## Customer

- Stx Group
- Doosan Engine Co., Ltd.
- Hyundai Heavy Industries Co., Ltd.
- Man Diesel

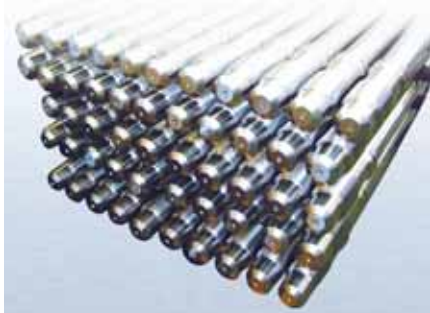




2-STROKE ENGINE COMPONENT



Stay Bolt



Cylinder Cover Stud



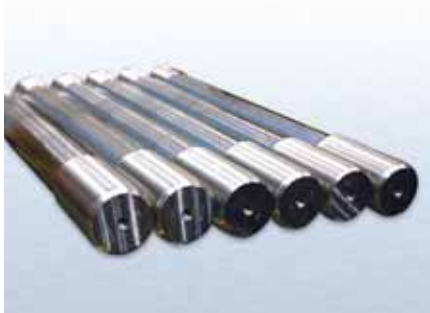
Main bearing stud



Bottom Piece



Holding Down Bolt & Coupling Bolt/Nut



Conrod stud

Product

- Bolt / Nut for Assembling
- Bottom Piece

Engine Model

- Man Diesel
- Wartsila
- Others

Customer

- Stx Group
- Doosan Engine Co., Ltd.
- Hyundai Heavy Industries Co., Ltd.
- Man Diesel
- Wartsila





# FORGING BLANK

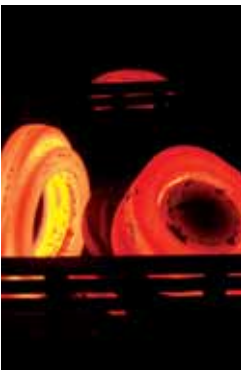
## Product

S&W has own forging facility and produce many kind of forging blank for marine engine component and supply to various kind of industrial field such as Heavy Equipment, Auto-Mobile, Agriculture Machinery etc.



## Facilities

Facilities	Weight per Piece	Capacity
2 ton Air drop hammer	3 ~ 25 kg	500 ton / Month
6 ton Air drop hammer	25 ~ 120 kg	800 ton / Month
10 ton Hydraulic hammer	25 ~ 200 kg	1,000 ton / Month







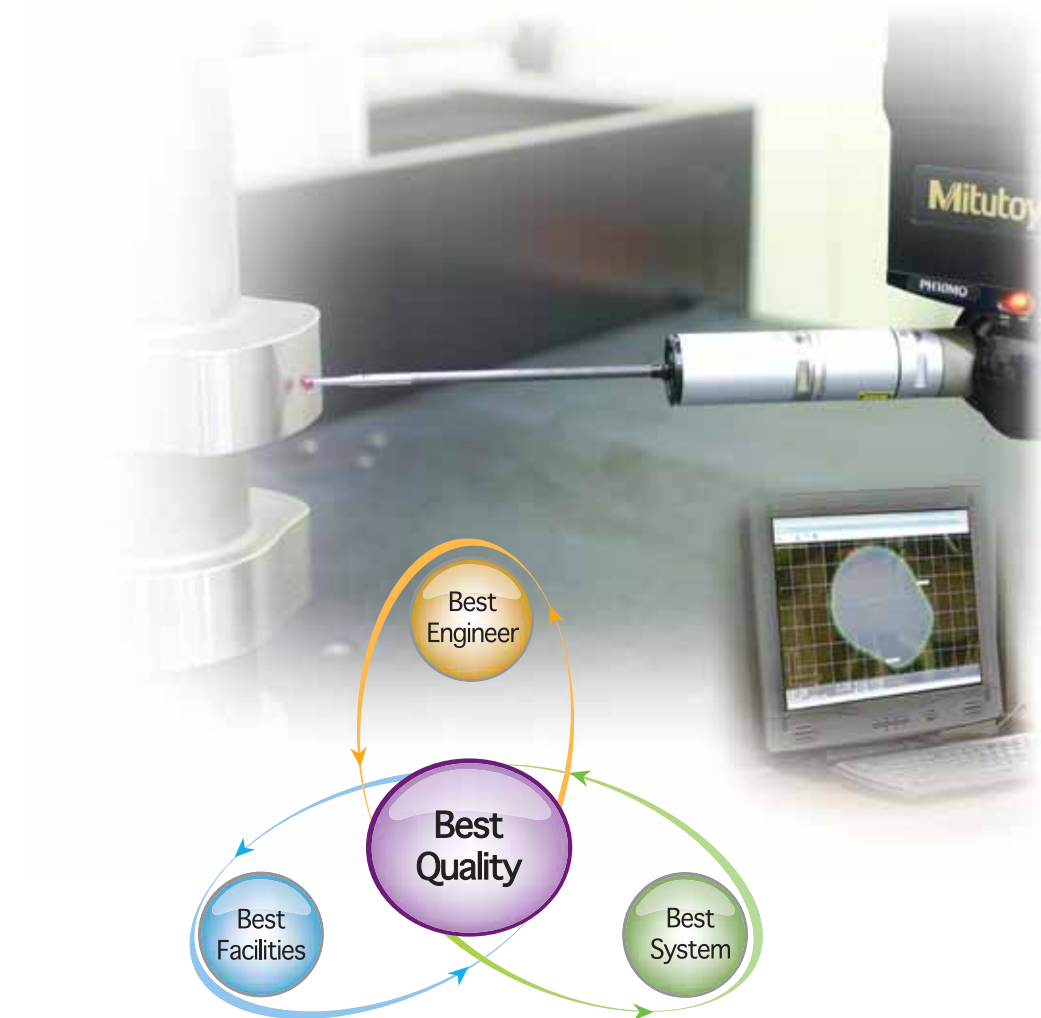
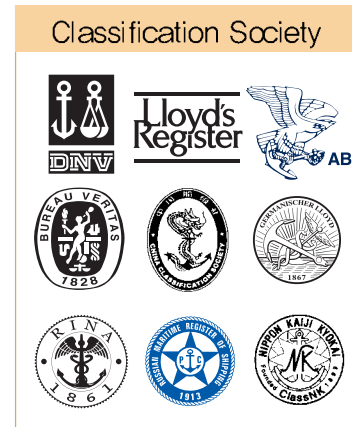
> Defense Venture



> KEPIC(Nuclear)



> INNO-BIZ



## Your Reliable Partner, **S&W**



Since establishment of 1967, S&W has been one of the world best manufacturing company for Marine Engine Components with high growth of Korean Shipbuilding Industries.

With Best people, facilities, and system, S&W supply various kind of Engine Components to Korean Main Engine Builder as reliable partner and continuously develop new technology for customer's satisfaction.

S&W always do best efforts to achieve the highest level of quality and reasonable price by more than 50 years experience & know-how.

Any time, any place, S&W will be together with you!